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DOCUMENTATION PAGE

RESEARCH PROPOSAL QUARTERLY STATUS REPORT

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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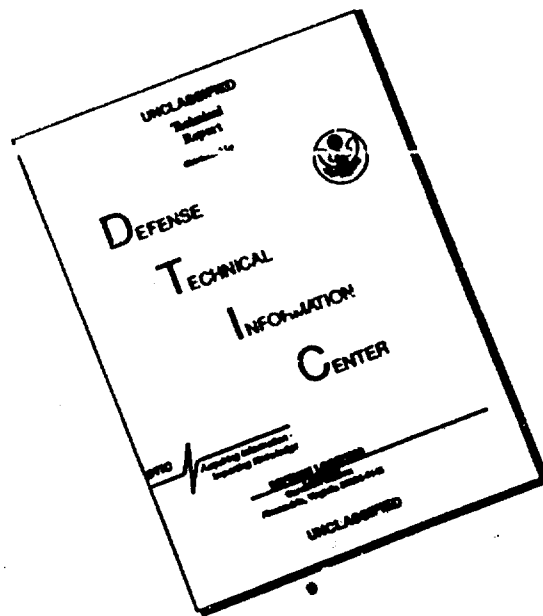
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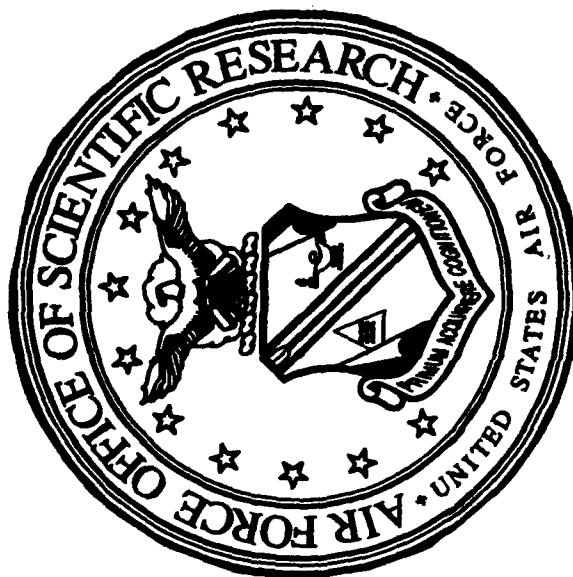
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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT



Contribution to the ...

APRIL - JUNE 1993

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

JULY 1993

INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.

The report is divided into two parts. The Institution index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Air Force Materiel Command, DCS/Science Technology.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH SCIENTIFIC STAFF DIRECTORY
BOLLING AIR FORCE BASE, DC 20332

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Col Arthur L. Pavel, Deputy Director 5017

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Dr Walter Jones	0470	Lt Col Seth Wilson	
Dr Julian Fishkoff	0465		
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		Dr Henry R Radoski	5021
		Dr John Tangney	5021
		Lt Col Stobie	5021
		Dr Stan Dickerson	5015
		Lt Col Dan Collins	5021
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Dr Fred Hedberg	4963	Dr Neal Glassman	4939
Dr Alan Rosenstein	4960	Dr Arje Nachman	5027
Dr Alexander Pechenik	4963	Dr Marc Jacobs	
Capt Charles Ward	4960		

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Dr Ralph Kelley	4908		
Dr Gerald Wilt	4931		
Dr Howard Schlossberg	4906		
Dr Harold Weinstock	4933		
Dr Alan Craig	4931		
Maj Gernot Pomrenke	4931		
Maj Billy Smith	5011		

PART 1

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
AMTEC Engineering Inc		Imlay	Scott	T	93-NA-304		SAKELL
Air Force Institute of Technology		Suter	Bruce		93-NM-313	A	SJOGREN
Air Force Office of Scientific Research		30LAND	J.M.P.		93-NI-031	A	RHOADS
		Lee	Charles		93-NI-021	A	BOLAND
Air Force Weapons Lab		Mages	Mary Ann		93-XP-003	A	LEE
Alabama A&M University		Park	Choong Bum		93-NA-305	A	SAKELL
					93-NC-320		LEE
					93-NE-424		CRAIG
Analytic Sciences Corporation		Comer	Robert	P	93-NL-271		DICKINSON
Applied Research Associates Inc		Pinsoth	James	L	93-NA-292		SAKELL
Arizona State University		Crouch	Peter	E	93-NM-365	A	JACOBS
		Reed	Helen	L	93-NA-339		SAKELL
		Roy	Asia		93-NM-289		SUDDARTH
		Spence	J. C. H.	H	93-NC-286		BURGGRAB
Armstrong Laboratory			Andrew	A	93-NC-350		BERMAN
			Ram	C	93-NI-022	A	BOLAND
Auburn University		Asken	Raymond	F	93-NI-020		BOLAND
		Chen	An-dan	F	93-NC-293		ERSTFELD
		Gale	William	F	93-NE-403		POMRENE
		Guven	Oktay		93-NC-346		ERSTFELD
		Neely	William	C	93-NA-314		LEWIS
		Thakur	Mrinal		93-NC-317		HEDBERG
		Vodyanov	Vitaly		93-NC-337		LEE
		Wentworth	Stuart	A	93-NL-296		HADDAD
Australian National University		Kennett	B.L.N.	S	93-NE-414		WITT
Bergen University		Husebye	Eystein	S	93-NL-195		DICKINSON
Boise State University		Zollweg	James	E	93-NL-270		DICKINSON
					93-NL-252		DICKINSON
Boston University		Hose	Michael	S	93-NL-299	A	DICKINSON
		Mingolla	Ennio		93-NA-300		WU
Brigham Young University		Terry	Ronald	E	93-NL-328		TANGNEY
Brimrose Corp. of America		Wang	Sean		93-NI-039	A	CAVENDER
Brown University		COOPER	DAVID	3	93-NE-464	A	CRAIG
		Lawandy	Nabil	M	93-NM-299	A	SJOGREN
		Seidel	George	M	93-NE-442	A	SCHLOSSER
Busek Co, Inc.		Hruby	V	J	93-NC-279		BERMAN
CFD Research Corp.		Krishnan	Anantha		93-NA-266	A	BIRKAN
California Applied Physics		Enslley	Donald	L	93-NA-250	A	TISHKOFF
California Institute of Technology		Abu-Mostafa	Yaser	S	93-NE-384		BARKER
		Ajello	J	M	93-NM-359		SUDDARTH
		Cohen	Donald		93-NE-382		KELLEY
		Martin	Sara	P	93-NM-311		NACHMAN
		McKoy	Vincent		93-NL-337		RADOOSKI
Cambridge University (Trumpington St)		CALARESE	M		93-NC-284		BURGGRAB
Carnegie-Mellon University		Kinderlehrer	David		93-NM-315	A	NACHMAN
		Kumar	B.V.K.		93-NM-374		NACHMAN
Case Western Reserve University		Witt	Michael	D	93-NM-336		SUDDARTH
					93-NI-038	A	CAVENDER

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Catholic University of America City University of New York	Uherall	Herbert			93-NE-441		SCHLOSSBER
	Ahmed	Samir	A		93-MM-332	A	NACHMAN
	Becker	Kurt			93-NE-446		KELLEY
Civil Engineering Research Foundation Clemson University	Bernstein	Harvey	M		93-NA-286	A	LEWIS
	Dickerson	Richard	L		93-ML-309		KOZUMBO
	Jeffries	Clark	D		93-MM-355		SUDDARTH
College of William and Mary Colorado State University	Larsen	Miguel	F		93-ML-284	A	STOBIE
	Rack	Henry	J		93-NC-325		WARD
	Riley	Melissa	B		93-ML-322		KOZUMBO
	Singh	Rajendra			93-NE-408		WITT
	Wang	Ting			93-NA-320		FANT
Columbia University	Collins	M. Robert			93-MM-376		SUDDARTH
	DeViere	Laurence	A		93-AC-288	D	LEE
	Srivastava	Jagdish	M		93-MM-375		SJOGREN
Conducdus, Inc. Cornell University	Kim	Won-Young			93-ML-250		DICKINSON
	Lo	Shaw-Hua			93-MM-326		SJOGREN
	Meneke	William	H		93-ML-267		DICKINSON
Culham Laboratory	Osgood, Jr	Richard	M		93-NE-433	A	SCHLOSSBER
	Richards	Paul	G		93-ML-248	A	DICKINSON
	Valcattis	Rimas			93-NA-290		WU
Desert Research Institute Duke University	Simon	Randy	M		93-NE-370	A	WEINSTOCK
	Craighead	Harold	G		93-NE-371	A	WITT
	Mausser	Ernest	C		93-ML-261		DICKINSON
EMSCO Inc	Koch	Donald	L		93-NA-313		JONES
	Moore	Francis	C		93-NA-346		WU
	Nation	John			93-NE-386		BARKER
Electrochemical Society, Inc. Epoch Technologies International	Schneider	Fred	B		93-MM-312		SUDDARTH
	Eastwood	James	M		93-EO-003	A	HACKETT
	Makedon	Fillia			93-XP-004		HACKETT
European Office of Aero Rsch and Develop Florida Institute of Technology	Prosser	Reese	T		93-MM-372		WAKSMAN
	Lowenthal	Douglas	H		93-ML-281	A	SJOGREN
	Madey	John	M		93-NE-455	A	STOBIE
INSCO Inc	Malin	Peter	E		93-ML-210	D	SCHLOSSBER
	Medina	Miguel	A		93-ML-213	C	DICKINSON
	Vitter	Jeffrey	S		93-NA-248	C	LEWIS
INSCO Inc	Oer	Zoltan	A		93-MM-362	D	SUDDARTH
	Ghalib	Hafidh	A		93-ML-238	D	DICKINSON
					93-ML-224	D	DICKINSON
INSCO Inc					93-ML-226	D	DICKINSON
					93-ML-229	D	DICKINSON
					93-ML-230	D	DICKINSON
INSCO Inc					93-NE-377	D	POMRENKE
					93-ML-255	D	DICKINSON
					93-ML-256	D	DICKINSON
INSCO Inc					93-NE-362	A	BARKER
					93-MM-337		NACHMAN

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Florida State University	Doss	Hani	J	93-MM-340		SJOGREN
General Sciences Inc	Zavitsanos	Peter	D	93-MC-290	D	BERMAN
Geological Survey/Dept of Interior	Benz	Harley	M	93-ML-339		DICKINSON
George Mason University	Gumbers	Jean	S	93-ML-334		DICKINSON
Georgia Institute of Tech	Stewart	Clayton	V	93-MM-330	A	SJOGREN
	Berdichevsky	Victor		93-NA-324		WU
	Glezer	Art		93-NA-265	A	MCMICHAEL
	Gole	James	L	93-MC-279		BERMAN
Georgia Tech Research Corporation	Blumenthal	Daniel		93-NE-461		CRAIG
H.C.Co. Science & Technology Inc.	Findakly	Talal	K	93-MC-352		LEE
Hampson University	MacIin	Arlene		93-NE-367		SCHLOSSER
Harvard University	Gabrielse	Gerald		93-NE-366	D	KELLEY
	Johnsson	S. Lennart		93-MM-288	A	JACOBS
Howard University	Misra	Prabhakar		93-NA-245		TISHROFF
IBM Thomas J. Watson Research Center	Chang	T. H. Philip		93-NE-375	A	WITT
Illinois Institute of Technology	Nagib	Hassan	M	93-NA-263	A	MCMICHAEL
Imperial College of Science and Tech	Dainty	J Chris		93-EO-006		HACKETT
Inst. of Electrical & Electronics Engrg	Wangemann	Robert	T	93-NE-469	A	SCHLOSSER
Integrated Systems, Inc.	Koust	Robert		93-MM-305	A	JACOBS
Japan-America Institute of Management Sc	Cross	Larry	R	93-MI-030	A	CAVENDER
Jet Propulsion Laboratory	Bellan	J		93-NA-296		BIRKAN
Johns Hopkins University	Wolff	Laurence	B	93-ML-325	A	COLLINS
Kansas State University	Anderson	Laura	A	93-ML-319		KOZUMBO
	Edgar	James	M	93-NE-399		POMRENKE
	Giese	John	P	93-MC-331	M	BERMAN
	Jiang	Hongxing		93-NE-401		POMRENKE
	Reagan	Charles		93-NA-307	A	FANT
	Setser	Donald	W	93-MC-332		BERMAN
King's College London	Sherwood	Peter M.	A	93-MC-295		ERSTFELD
Lehigh University	Gabriel	Camelia		93-ML-331	A	KOZUMBO
Los Alamos Nat'l Lab--Appl Theor Phys Div	Rockwell	Donald	O	93-NA-293		FANT
Louisiana State University	Miller	Warner	A	93-NE-466		BARKER
	Ajmera	Pratul	K	93-NE-398		POMRENKE
	Charalamopoulos	Tryfon	T	93-NA-252		TISHROFF
	Hefel	John	P	93-NE-425		SCHLOSSER
Louisiana Tech University	Friedrich	Craig	R	93-NA-310		MCMICHAEL
MASARYK University	Ovorak	Vladimir		93-ML-200		DICKINSON
Management Science Consultants of Americ	Pourbabil	Behnam		93-MM-320		GLASSMAN
Marshall University	Brumfield	James	O	93-ML-300		DICKINSON
	Lodgher	Akhtar	M	93-ML-289		TANGNEY
	Zill	Sasha	N	93-ML-280		COLLINS
Marwood College	Matthews	Patricia	A	93-ML-192	A	BERRY
Massachusetts Institute of Technology	Bekefi	George		93-NE-373		BARKER
	Crawley	Edward	F	93-NA-257	A	WU
	Mayes	Anne	M	93-MC-354		LEE
	Patera	Anthony	E	93-MM-287		JACOBS
	Samuels	Richard	J	93-MI-029	A	CAVENDER
	Toksoz	M. Nafi		93-ML-243		DICKINSON

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PI NAME
Materials Research Society Materials Sciences Corp Maxwell Laboratories	WILSKY	ALAN		S	93-NM-237	A	SJOGREN
	Ballance	John		B	93-NE-457		POMRENKE
	Hashin	Zvi			93-NA-285	A	JONES
	Barker	Terrance		G	93-NL-263		DICKINSON
Medical College of Ohio	Bennett	Theron		J	93-NL-233		DICKINSON
	McLaughlin	Keith		L	93-NL-269		DICKINSON
	Stevens	Jeffrey		L	93-NL-262		DICKINSON
	Goldblatt	Peter		J	93-NC-353	A	HEDBERG
Michigan Technological University Mission Research Corp	Munson	Terry		D	93-NI-040	A	CAVE 'DER
	Felice	Conrad		M	93-NL-206	D	DICKINSON
	Fisk	Mark			93-NL-265		DICKINSON
	Hughes	Thomas		P	93-NM-357		JACOBS
Mississippi State University	Chambers	Janice		E	93-NL-307	A	KOZUMBO
	Gardner	Steven		C	93-MC-294		ERSTFELD
	Issa	Camille		A	93-NC-348		LEE
	Soni	Bharat		K	93-NA-337	A	SAKELL
Montana State University	Avci	Recep		D	93-NL-297		HADDAD
	Jrivers	James		L	93-ML-298		HADDAD
	Carlsten	John		L	93-NE-415		WITT
	Cone	Rufus		L	93-NE-422	A	CRAIG
Nato Marine Laboratory	Cooksey	Keith		E	93-NL-321		KOZUMBO
	Lapeyre	Gerald		J	93-NE-410		WITT
	Leandoecki	Zbigniew			93-NC-302		HEDBERG
	Schmidt	V. Hugo			93-NC-335		ERSTFELD
Y.Y. U. Courant Institute Math Science	van Kujik	Frederik J.G.M.		M	93-NL-310		KOZUMBO
	Sherblom	Paul		J	93-NA-240		LEWIS
	Berger	Marsha			93-NM-329		JACOBS
	Regallo	Bog			93-NA-287	A	SAKELL
NASA - Ames Research Center	Whitlow Jr	Woodrow		E	93-NA-306	A	FANT
	Lavery	John		P	93-NM-309		GLASSMAN
	Casassa	Michael			93-MC-277		BERMAN
	Hanley	Howard J M			93-NA-246		LEWIS
NASA - Langley Research Center	Chisolm	Grant		N	93-XP-005	A	WILKERSON
	Boltnott	Greg		L	93-NL-268		DICKINSON
	Armstrong	Robert			93-NE-381	D	SCHLOSSER
	Mayorga	Miguel		F	93-NM-318	D	WAKSMAN
National Photographic Interpretation Ctr	Ni	James			93-NL-209		DICKINSON
	Kaufman	Lloyd		E	93-NL-324	A	TANGNEY
	Childs	Robert			93-NA-254		SAKELL
	Chokani	N			93-NA-309		SAKELL
New England Research Inc.	McRae	D Scott			93-NA-340		SAKELL
	Sylvester Jr	John		P	93-NI-036	A	CAVENDER
	Bierwagen	Gordon			93-NA-317		JONES
					93-NC-300		ERSTFELD
New Mexico State University	Boudjouk	Philip		R	93-NC-304		HEDBERG
	Dunn	Douglas		E	93-NE-392		POMRENKE
	Ebeling	Kenneth		A	93-NL-290		TANGNEY
	McCourt	Mark		K	93-NL-285		TANGNEY

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Northeast Consortium for Engineering Edu	Mygard	Kendall	E	93-NM-351	A	GLASSMAN
	Tuvarajan	Subbaraya		93-NE-418	A	WITT
	Rayraktaroglu	Burhan		93-NE-459	A	WITT
Northeastern University	Everett, Jr	Woodrow	W	93-NI-026	A	CAVENDER
	JEVANEY	ANTHONY	J	93-NE-378	A	WITT
	Deutsch	Stewart	J	93-NM-301	A	SJOGREN
Northwestern University	Kirss	Rein	U	93-NM-309	A	SJOGREN
	Keer	Leon	M	93-NE-351	A	ERSTFELD
				93-NA-281	A	JONES
Office of Naval Research	Okal	Emile	A	93-NA-283	A	JONES
	Ratcliff	Roger		93-NL-242	A	DICKINSON
	Paolotti	Chuck		93-NL-194	A	TANGNEY
Ohio State Univ Research Foundation	Venuto	Thomas		93-XP-008	A	PAVEL
	Samay	Mo		93-XP-009	A	PAVEL
	Zhao	Feng		93-NA-267	A	TISHKOFF
Ohio State University	Lozykowski	Henryk	J	93-NA-333	A	SAKELL
	Arena	Andrew	S	93-NM-341	A	JACOBS
	Knobbe	Edward	T	93-NE-456	A	POMRENKE
Oklahoma State University	Komanduri	Ranga	L	93-NA-323	A	FANT
	Song	Jin-Joo		93-NC-296	A	ERSTFELD
	Thompson	Donald		93-NC-306	A	PECMENIK
Oklahoma State University College of Ost	Martin	Loren	G	93-NE-400	A	POMRENKE
	Alexander	Shelton	S	93-NC-333	A	BURGGRAF
	Castleman, Jr.	A.	M	93-NC-334	A	BURGGRAF
Pennsylvania State University	Cusumano	Joseph	P	93-NC-355	D	WU
	Cutler	Paul		93-NA-260	D	WU
	Langston	Charles	A	93-NE-448	D	BARKER
Phillips Lab - Geophysics Directorate	Jasperse	John	A	93-NL-211	A	DICKINSON
	Mullins	Gilly	R	93-NL-326	A	BOLAND
	Shih	Robert		93-NI-023	A	BARKER
Physical Optics Corporation	Kalkhoran	Iraj	M	93-NE-376	A	CRAIG
	Bentley	John		93-NE-468	A	CRAIG
	Debenedetti	Pablo	G	93-NA-342	A	FANT
Polytechnic University	Jacobs	Augustinus	L	93-NE-368	A	SCHLOSSBER
	Molet	Steven	M	93-NA-242	A	TISHKOFF
	Orzag	Steven	A	93-NL-341	A	HADDAD
Purdue Research Foundation	Safts	Alexander	J	93-NL-222	A	DICKINSON
	Murthy	S N 3		93-NA-261	A	MCMICHAEL
	Plante	Robert	C	93-NA-251	A	TISHKOFF
Purdue University	Weiner	Andrew	M	93-NA-299	A	SAKELL
	Pekny	Joseph	F	93-NI-037	A	CAVENDER
	Schneider	Steven	P	93-NE-372	A	CRAIG
Quantex Corporation	Sun	C T		93-NM-306	A	GLASSMAN
	Yang	Xiangyang		93-NA-291	A	SAKELL
	Pull	Jay		93-NA-273	A	JONES
Radio Systems, Inc.				93-NE-463	A	CRAIG
				93-NL-259	A	DICKINSON

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
	LAST NAME					
Kennelsaer Polytechnic Institute	MacCrone	Robert	K	93-NC-287	D	ERSTFELD
Research Support Instruments Inc	Moore	James	A	93-NC-282		LEE
Rice University	Brandenburg	John		93-NE-374		BARKER
	Levander	Alan		93-NL-204		DICKINSON
	WELLS JR	O	R	93-NM-300	A	SJOGREN
Rutgers The State University	Weng	George	J	93-NA-311		JONES
S.C. School Of Mines & Technology	Helidon	John	H	93-NL-279		STOBIE
	Meiners	Larry	G	93-NE-416		WITT
	Smith	Paul	L	93-NL-286		STOBIE
AI International	Geiken	Paul	R	93-NL-246		DICKINSON
Science Applications International Corp	Sutau-Henson	Anne		93-NL-237		DICKINSON
Smithsonian Institution	Vessot	Robert	C	93-NE-447		KELLEY
Spire Corp.	Vernon	Stanley	M	93-NE-373	A	POMERKE
St. Louis University	Mitchell	Brian		93-NL-202		DICKINSON
	Rao	G	V	93-NL-272		STOBIE
	Xie	Jia-Kang		93-NL-203		DICKINSON
Stanford University	Bacanoff	Donald		93-NA-239	A	SAKELL
	Bloom	David		93-NE-450	A	SCHLOSSER
	Cappelli	Mark	A	93-NA-269	A	BIRMAN
	Chapman	Dean	R	93-NA-341	A	SAKELL
	Golub	Gene		93-NM-322	A	JACOBS
	KAILATH	THOMAS		93-NM-367	A	JACOBS
	Kailath	Thomas		93-NM-361	D	SJOGREN
	Moin	Parviz		93-NA-297	A	SAKELL
	Papanicolaou	George		93-NL-205	D	LICKINSON
	SARASWAT	KRISHNA	C	93-NM-366	A	JACOBS
	Shoham	Yoav		93-NM-363	A	WAKSMAN
	Tversky	Barbara		93-NL-314		TANGNEY
State University of New York	Ganter	Laurence	A	93-NM-324		SJOGREN
	Karna	Shashi	P	93-NC-289		BURGGRAF
	Ladeinde	Foluso		93-NE-467		KELLEY
	Nardi	Vittorio		93-NA-308		SAKELL
	Pal	Nirupam		93-NE-453		BARKER
	Whitson	Carmen	A	93-NL-335		KOZUMBO
Strategic Analysis Inc	Kuperstein	Michael		93-NC-285	A	HEDBERG
Webus Technology	Dooben	Peter	A	93-NL-327		TANGNEY
Syracuse University	Loewenthal	Dan		93-NE-365		WITT
Tel-Aviv University	Davis	J. Peter		93-NL-208	D	DICKINSON
Teledyne Geotech	Jih	Rong-Song		93-NL-228	D	DICKINSON
	Junkins	John	L	93-NL-236	D	DICKINSON
Texas A and M Research Foundation	Hogan	Harry		93-NA-258	D	WU
Texas A and M University	Kurdila	Andrew	J	93-NA-282	D	JONES
	Magnuson	Allen	H	93-NA-270		WU
	Allen	David	M	93-NA-333		LEWIS
Texas Engineering Experiment Center	Ochoa	Ozden		93-NA-302		JONES
	Pradhan	D.		93-NA-279	A	JONES
Texas Instruments Inc	Collins	Dean	K	93-NM-307	A	SUDDARTH
				93-NE-454	A	SCHLOSSER

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INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Texas Tech University	Eme	Erol		93-MM-327		SJOGREN
The Connecticut Agricultural Experiment	Saahney	Brij	L	93-NA-241		LEWIS
The RAND Corporation	Palmer	Don		93-XP-006	A	GORTON
Tesler Institute	Keeler	Martin	J	93-NE-460		SMITH
Trislan Technologies	Anderberg	Joe		93-NE-369		POMRENKE
Tulane Univ -- School of Medicine	Abdelghani	Assaf	A	93-NL-313		KOZUMBO
	Sernofsky	Carl		93-NL-315		KOZUMBO
Tulane University	Allen	Susan	D	93-NC-303		HEDBERG
				93-NE-411		WITT
	Larson	Michael	C	93-NA-331	A	JONES
	Mislova	Michael	M	93-MM-354		SUDDARTH
	Zimmerman	George	L	93-NL-292	A	TANGNEY
JTD Inc.	Foster	Eugene	L	93-NL-258		DICKINSON
United Technologies Chemical Systems Div	Izeng	Donald	D	93-NC-281		BERMAN
Univ of Alabama	Amin	Ashok	T	93-MM-319		SUDDARTH
	Anantharamaiah	G	M	93-NL-313		KOZUMBO
	Beale	Stephen	C	93-NL-317		KOZUMBO
	Feikema	Douglas	A	93-NA-326		YISHKOFF
	Krannich	Larry	K	93-NC-330	A	BERMAN
	Rigsbee	J.	K	93-NC-310		WARD
	Vohra	Yogesh	K	93-NC-341		ERSTFELD
Univ of Arizona	Moloney	J.V.		93-NE-437	M	POMRENKE
	Ortega	Alfonso		93-NL-333		KOZUMBO
	Powell	Richard	C	93-NA-259		MCMICHAEL
	Wallace	Terry	C	93-NE-443		SCHLOSSBER
Univ of Arkansas	Eabank	John	D	93-NL-215		DICKINSON
	Salemo	Gregory	J	93-NC-329		BERMAN
				93-NE-394		POMRENKE
				93-NE-395		POMRENKE
				93-NE-396		POMRENKE
				93-NE-397		POMRENKE
				93-NE-412		WITT
	Schaper	Leonard	M	93-NE-413		WITT
Univ of Arkansas/Pine Bluff	Miah	M.A.		93-NL-332		KROLL
Univ of California, Berkeley	Ferrari	Mauro		93-NA-289		LEWIS
	Hirschen	Morris	M	93-MM-371		SUDDARTH
	Johnson	Lane		93-NL-201		DICAINSON
	Klein	Stanley	A	93-NL-342		TANGNEY
	Morse	Edward	C	93-NE-383		BARKER
	Romanowicz	Barbara		93-NL-214	D	DICKINSON
	Soane	David		93-NC-349	D	LEE
Univ of California, Davis	Whaley	K. Birgitta		93-NC-280		BERMAN
	Chang	Tsu-Shuan		93-MM-360		GLASSMAN
Univ of California, Irvine	Benford	Gregory		93-NE-440		BARKER
	Wolfe	J.		93-NC-333		PECHENIK
Univ of California, Los Angeles	Cavlis	Russell		93-MM-295		NACHMAN
	Davis	Paul	M	93-NL-243		DICKINSON

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of California, Riverside	Lin	Anthony		T	93-NL-245		DICKINSON
	Speyer	Jason		L	93-NE-389	A	BARKER
	de la Torre	Jose			93-NM-314		JACOBS
	Bhanu	Bir			93-NI-041	A	CAVENDER
	Vernon	Frank			93-NM-377	A	WAKSMAN
	Jourevitch	Peter			93-NL-216	D	DICKINSON
	Hu	T.		C	93-NI-034	A	CAVENDER
	Jackson	Bernard		V	93-NM-338		GLASSMAN
	Minster	J. Bernard			93-NL-330		RADOSKI
	Orcutt	Jean-Bernard		A	93-NL-253	A	DICKINSON
Univ of California, Santa Barbara	Ramachandran	John			93-NL-311		DICKINSON
	Sarkar	V.S.			93-NL-312		TANGNEY
	Shearer	Sutanu		M	93-NA-298		SAKELL
	Vernon	Frank			93-NL-198	D	DICKINSON
	Williams	Forman		A	93-NL-221		DICKINSON
	Bayo	Eduardo			93-NA-268		BIRKAN
	Evans	A		G	93-NA-271	A	WU
	Laub	A.		J	93-NA-321		JONES
	Yeh	Pochi			93-NM-291	A	JACOBS
	Asanon	Charles			93-NE-459	A	SCHLOSSBER
Univ of California, Santa Cruz	Bridgeman	Bruce			93-NL-240		DICKINSON
	Lay	Thorne			93-NL-336		COLLINS
	Schwartz	Susan		Y	93-NL-197		DICKINSON
	Wu	Ru-Shan			93-NL-235		DICKINSON
	Zhang	Jiajun			93-NL-227		DICKINSON
	Oka	Takechi			93-NL-251		DICKINSON
	Hamed	Awatef			93-NC-283		BERMAN
	Rubin	Stanley		G	93-NA-334		SAKELL
	Ablovitz	Mark		J	93-NA-301	A	SAKELL
	Archambeau	Charles		3	93-NM-317	D	NACHMAN
Univ of Chicago	BEYLKIN	GREGORY			93-NL-220		DICKINSON
	Forbes	Jeffrey		M	93-NL-247	A	SJOGREN
	Harvey	Danny		J	93-NM-302		STOBIE
	Kasoy	David		R	93-NL-241		DICKINSON
	Lewshin	Anatoli		L	93-NA-303	A	BIRKAN
	Michl	Josef			93-NL-232		DICKINSON
	Ritzmoller	Michael		H	93-NC-340		BERMAN
	Cormier	Vernon		F	93-NL-266		DICKINSON
	Madych	Molodyeyr		R	93-NL-212		DICKINSON
	Karpur	Prasanna			93-NM-316	A	NACHMAN
Univ of Dayton	Shae	Carol		M	93-NA-280	A	JONES
	Brill	Thomas		9	93-NI-027	A	CAVENDER
	Tate	Austin			93-NA-295	A	BIRKAN
	Thomson	Eben		M	93-XP-007	A	FWLER
					93-NL-273		STOBIE

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INSTITUTION	INVESTIGATOR	PROPOSAL	STATUS	PM NAME
	LAST NAME	FIRST NAME	MIDDLE	
Univ of Illinois	Chen	Wang-Ping		A
	Chudnovsky	Alexander		A
	Clarke	Timothy	J	
	Eden	J. Gary		
Univ of Indiana	Eurell	Thomas	E	
	Markoc	Radis		
	Pavlis	Gary	L	
	Chen	Lea	J	
Univ of Iowa	Lohman	David	F	
	Butler Jr	James	J	
	McDonnell	Tony		
	Gedney	Stephen	D	
Univ of Kansas	Kovacevic	Radovan		
	Man	Chi-Sing		
	McDonogh	James	M	
	Ng	Kwok-Wai		
Univ of Kentucky	Kovacevic	Radovan		
	Hainsworth	Roger		
	Cohn	Robert		
	Faguy	Peter		
Univ of Kentucky Research Foundation	Kielkopf	John		
	Gusepn	P		
	Gupta	Ramesh		
	Trons	Fred		
Univ of Maine	Frey	Jeffrey		
	Kodem	Benjamin		
	Lewis	Mark		
Univ of Maryland	ROSENFELD	AZRIEL		
	Menyuk	Curtis	R	
	Riseman	Edward	M	
	Campbell	John	C	
Univ of Maryland, Baltimore County	Dahn	Werner J A		
	Hancock	Walton	A	
	Kornblum	Sylvan		
	Liker	Jeffery	K	
Univ of Massachusetts	Triantafyllidis	N		
	Ward	Allen	C	
	Wellman	Michael	P	
	Geyer	Daryl	F	
Univ of Minnesota	Friedman	Avner		
	TEWFIK	AMMED	M	
	Jass	Henry	E	
	Raspet	Richard		
Univ of Mississippi	Sinha	Sumon	K	
	Altekin	Sema		
Univ of Missouri				

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME	
Univ of Nebraska	Blum		Frank		93-NM-345		GLASSMAN	
	Herrick		Thomas	J	93-NC-318		LEE	
	Isaac		Kakattukuzhy	J	93-NE-628		BARKER	
	McMillin		Gruea	M	93-NA-327		BIRMAN	
	Morosoff		Nicholas	C	93-NM-347		SUDDARTH	
	Moss		Frank	E	93-NC-343		ERSTFELD	
	Wossman		Deborah	J	93-NC-274		HADDAD	
	Murphy		Richard	J	93-NL-308		KOZUMBO	
	Okafor		Anthony	C	93-NE-421	A	SARKER	
	Rao		Vittal	C	93-NM-356		SUDDARTH	
	Seaba		James	S	93-NA-330		WU	
	Smith		George	P	93-NC-343		WARD	
	Stacy		Tina	P	93-NL-316		KOZUMBO	
	Tompson		Robert	E	93-NE-405		POMRENKE	
	Welland		Grant	V	93-NA-315		LEWIS	
	White		Henry	V	93-NM-348		JACOBS	
	Zhu		Da-Ming	A	93-NC-301		ERSTFELD	
	Univ of Nevada	Billesbach		David	P	93-NC-326		WARD
		Doeber		Peter	P	93-NC-338	A	HEDBERG
		Ducharme		Stephen		93-NE-444		WITT
Erkhardt			Craig	J	93-NC-336		LEE	
Ianno			Natale	J	93-NC-321		POMRENKE	
ParKhurst			Lawrence	J	93-NE-402		LEE	
Sellmeyer			David	J	93-NC-319		WITT	
Anderson			John	C	93-NE-409		DICKINSON	
Thompson			Jeffrey	S	93-NL-234		BARKER	
Acoves			Alejandro	B	93-NE-419	A	NACHMAN	
Univ of New Mexico	Schamiloglu		Edi		93-NM-335	A	BARKER	
	Truman		E Randall		93-NE-387		MCNICHAE	
Univ of New Orleans	Hui		C Randall		93-NA-262		MCNICHAE	
	O'Connor		David		93-NA-343	M	LEE	
Univ of North Dakota	Piotrowski		Charles	J	93-NC-312		LEE	
	Serpa		Piotr	F	93-NC-314		LEE	
	Tang		Laura		93-NC-316		DICKINSON	
	Olson		Jinke	D	93-NL-301		WITT	
	Petros		Mark	V	93-NE-439		HADDAD	
Univ of Notre Dame	Schulz		Thomas	H	93-NL-275		TANGNEY	
	Young		Kirk	D	93-NL-288		ERSTFELD	
Univ of Oklahoma	Sandypachay		Kevin		93-NC-347		KOZUMBO	
	Gal-Chen		S		93-NL-323		POMRENKE	
Univ of Pennsylvania	Germanovich		Tzyi		93-NE-449		STOBIE	
	Gollahalli		Lenoid	K	93-NL-282		JONES	
	Laeson, Jr.		Subramanyam	E	93-NA-289		TISHKOFF	
	Xu		James		93-NA-325		DICKINSON	
Univ of Pennsylvania	Cooperman		Qin		93-NL-302		DICKINSON	
	Cooperman		Barry		93-NL-303		STOBIE	
Univ of Pennsylvania	Cooperman		Barry		93-NL-191	A	HOLLAND	
	Cooperman		Barry		93-NM-321			

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Univ of Pittsburgh	Maciejewski		Paul	K	93-NA-244		FANT
	Vallajo		Luis	E	93-NL-196	D	DICKINSON
Univ of Puerto Rico	Liu		Huimin		93-NE-390		POMRENKE
	Souto	Bachiller	Fernando	A	93-NL-320		KOZUMBO
Univ of Puerto Rico, Rio Piedras	Kaiyar		Ram	S	93-NE-407		WITT
	Guinones-Gonzalez		EJain		93-NC-344		BERMAN
Univ of South Carolina	DeVore		Ronald	A	93-NM-350		SJOGREN
	Fox		Alvin		93-NL-295		HADDAD
	Jawerth		Bjorn		93-NM-349		NACHMAN
	Owens		Thomas	J	93-NL-225		DICKINSON
					93-NL-293		DICKINSON
	Sudarshan		Tangali	S	93-NE-406		POMRENKE
	Sutton, Ph.D.		Michael	A	93-NA-294		JONES
	Tour		James	M	93-NC-309		LEE
Univ of Southampton	Pannell		Phillip		93-EO-008		NEAL
	St-J. Russell		Christ		93-EO-004		NEAL
Univ of Southern California	Gundersen		Matrin	A	93-NE-380		BARKER
	Hellgarth		Robert	M	93-NE-462		SCHLOSSER
	Jonckheere		Edmond	A	93-NM-359		JACOBS
	Nevatia		Ramakant		93-NM-378	A	WAKSMAN
	PAPAVASSILOPOULOS		GEORGE	P	93-NM-294		SJOGREN
	Seartout		Willaze		93-NM-339	A	WAKSMAN
	Tanguay, Jr		Armand	R	93-NE-452	A	CRAIG
	Udwadia		Firdaus	E	93-NA-336		WU
Univ of Southern Mississippi	Nathias		Lon	J	93-NC-313		LEE
Univ of Southeastern Louisiana	Glass		Gary	A	93-NC-297		ERSTFELD
Univ of Tennessee	Radar		Mark		93-NE-451		BARKER
Univ of Texas	Fronlich		Cifford	A	93-NL-217	D	DICKINSON
	Kyriakides		Stellios		93-NA-316		JONES
	Szaboelky		Victor		93-NA-243	D	JONES
Univ of Toledo	Lin		En-jing		93-NM-325		SJOGREN
Univ of Tulsa	Abraham		Martin	A	93-NC-298		ERSTFELD
	Gamble		Rose	F	93-NM-353		WAKSMAN
	Teeters		Dale		93-NC-307		WILKES
	Tipton		Steven	M	93-NC-324	W	WARD
Univ of Utah	Dubow		Joel		93-NI-033	A	CAVENDER
Univ of Vermont	Stavrakakis		Ioannis		93-NM-323	A	GLASSMAN
	Varnue		Walter	J	93-NE-404		POMRENKE
Univ of Virginia	Wallace		Susan	S	93-NL-277		HADDAD
Univ of Washington	Derakovich		Carl	T	93-NA-284		JONES
	Abbott		William		93-NE-389	A	CRAIG
	Bruckner		Adam	P	93-NA-247	A	TISHKOFF
	Jarboe		Thomas	R	93-NE-465		BARKER
	Istutsui		Michio		93-NI-044	A	CAVENDER
	Cnapan		Thomas	M	93-NI-032	A	CAVENDER
Univ of Wisconsin	Mangasarian		Olvi	L	93-NM-331		GLASSMAN
	Meyer		Robert	P	93-NL-223	D	DICKINSON
	Scharer		John	E	93-NE-385		BARKER

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Univ of Wyoming	Cowles	John	E	93-NM-292	D	SJOGREN
	Gantenbein	Rex	E	93-NM-344		JACOBS
	McInroy	John		93-NL-287		TANGNEY
	Moorman	Leo		93-NE-426		SCHLOSSER
University City Science Center	Rav	Bibek		93-NL-294		HADDAD
	Smithson	Scott	B	93-NL-219		DICKINSON
	Van Baalen	Jeffery		93-NI-346		WAKSMAN
	Padulo	Louis		93-NI-043	A	CAVENDER
University of Alabama	Izatt	Jerald	R	93-NE-438		WITT
	Jones	Stanley	E	93-NA-275		JONES
	Cloud	Joseph	G	93-NL-305		HADDAD
	Froes	Francis	H	93-NC-327		WARD
University of Idaho	Shreeve	Jean'ne	M	93-NC-305		HEDBERG
	Swing	Mark	S	93-NA-329		WU
	Vander Velde	David	O	93-NM-342		SJOGREN
	Dong	Kai Wei		93-NC-299		ERSTFELD
University of Puerto Rico	Lugo-Garcia	Nidza		93-NE-431		BARKER
	Martinez	Antonio	G	93-NL-304		HADDAD
	Poss	Stuart		93-NE-434		CRAIG
	Blake	Randolph	P	93-NL-306		HADDAD
University of Southern Mississippi	Hardin	Douglas		93-NL-343		TANGNEY
	Kawamura	Kazuhiko		93-NM-369	A	SJOGREN
	Colombo	Joseph	L	93-NI-029		CAVENDER
	Meleovitch	Leonard	I	93-NL-340		COLLINS
Washington State University	Nazareth	John		93-NA-345		WU
	Byrnes	Christopher	G	93-NM-293		GLASSMAN
	Hanson	Thomas	R	93-NM-352		JACOBS
	Krcnavek	Robert		93-NC-311	W	LEE
West Virginia University	MIN	PAUL	S	93-NC-315	W	LEE
	Miller	Michael		93-NE-363	O	SCHLOSSER
	Sastry	Shankar	I	93-NE-435	A	SCHLOSSER
	Halliburton	Larry	E	93-NM-368	A	GLASSMAN
Yale University	Hornak	Lawrence	A	93-NM-343	A	SJOGREN
	Koepeke	Mark	E	93-NC-328	A	WARD
	Kuhlman	John	M	93-NC-323	W	LEE
	Zondlo	James	C	93-NE-393	A	PORRENKE
Wichita State University	Mo	William T.	K	93-NE-417	A	WITT
	Stevenson	Chandan	K	93-NE-417		RADOSKI
	Saikia	Paul	K	93-NL-278		MCNICHAE
	Somerville	Bradley	B	93-NA-312		ERSTFELD
Woodward Clyde Consultants	Woods	Ronald	J	93-NC-291		LEE
	Kerans	R		93-NC-322		ERSTFELD
	COIFMAN	A. Stephen		93-NC-292		DICKINSON
	Morse			93-NL-254		DICKINSON
Fright Lab				93-NL-260		DICKINSON
				93-NL-213		DICKINSON
				93-NI-024	A	BOLAND
				93-NI-024	A	SJOGREN
Yale University				93-NM-298		JACOBS
				93-NM-310		JACOBS

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INSTITUTION

INVESTIGATOR

LAST NAME

FIRST NAME

MIDDLE

PROPOSAL

STATUS

PM NAME

Park

Jeffrey

J

93-NL-244

DICKINSON

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TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AASERT-FY93) DAMPING IN RAREFIED NONSTEADY FLOWS Stanford University	Baganoff Donald	N 36 01/04/93 \$125,000	A SAKELL 93-NA-239	\$125,000 01/08/93 \$125,000
SELECTED ALKANE SOLUBILITIES AND THE INTERACTIVE EFFECTS OF MULTIPLE COMPONENTS Nate Marine Laboratory	Sherblom Paul	N 24 01/04/93 \$78,648	LEWIS 93-NA-240	
INTERACTIONS OF HYDROCARBONS WITH SOILS AND CLAYS: MECHANISMS OF REVERSIBLE AND IRREVERSIBLE SORPTION The Connecticut Agricultural Experiment	Sashney Grij	N 36 01/04/93 \$345,398	LEWIS 93-NA-241	
(AASERT-93) COMPUTER SIMULATIONS OF MOLECULAR INTERACTIONS AND DYNAMIC PROCESSES IN SUPERCRITICAL SOLVENTS AND MODELLING Princeton University	Debenedetti Pablo	N 36 01/04/93 \$141,145	A TISHKOFF 93-NA-242	\$141,145 01/08/93 \$141,145
MULTIDAY DEEP SPACE ORBITS Univ of Texas	Szaboheky Victor	N 48 01/04/93 \$240,000	D JONES 93-NA-243	
AN INVESTIGATION OF THE CLAIM THAT ST* IS INDEPENDENT OF TU Univ of Pittsburg	Maciejowski Paul	N 36 01/04/93 \$155,578	FAMT 93-NA-244	
(AASERT-93) LASER SPECTROSCOPY OF COMBUSTION INTERMEDIATES IN A SUPERSONIC JET EXPANSION Howard University	Misra Prabhakar	N 36 01/04/93 \$107,415	TISHKOFF 93-NA-245	
MANOMETER STRUCTURE OF PARTICULATE MATTER: APPLICATION OF NEUTRON SCATTERIN National Inst. of Standards & Technology	Hanley Howard J M	N 36 01/04/93 \$100,000	LEWIS 93-NA-246	
(AASERT-93) BASIC AND APPLIED STUDIES OF THE RAM ACCELERATOR AS A HYPERVELOCITY PROJECTILE LAUNCHER Univ of Washington	Bruckner Adam	N 36 01/04/93 \$127,335	A TISHKOFF 93-NA-247	\$127,335 01/08/93 \$127,335

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(AASERT-FY93) INTEGRATING PROBABILISTIC & PHYSICALLY-BASED MODELS FOR OPTIMAL GROUNDWATER CONTAMINATION REMEDIATION PLANNING Juke University	Miguel Medina	N 36 02/04/93 \$295,869	D LEWIS 93-NA-248	
(AASERT-FY93) CONTAMINANT TRANSPORT IN UNCONSOLIDATED SAND AND GRAVEL AQUIFERS: THE SCALE PARADOX Univ of Kansas	Dutler Jr James	N 36 02/04/93 \$141,267	D LEWIS 93-NA-249	
(SABR-93) INFLUENCE OF SUPERCRITICAL CONDITIONS ON PRECOMBUSTION CHEMISTRY AND TRANSPORT BEHAVIOR OF JET FUELS CFD Research Corp.	Krishnan Anantha	N 24 05/04/93 \$529,892	A TISHKOFF 93-NA-250	\$317,935 01/08/93 \$529,892
(AASERT-93) TURBULENT REACTING FLOWS AT HIGH SPEED Princeton University	Smits Alexander	N 36 05/04/93 \$345,692	A TISHKOFF 93-NA-251	\$136,200 01/08/93 \$136,200
(AASERT-93) DEVELOPMENT OF A TECHNIQUE TO DETERMINE THE MORPHOLOGY & DYNAMICS OF AGGLOMERATES IN CHEMICALLY REACTING FLOWS Louisiana State University	Charalampopoulos Tryfon	N 36 05/04/93 \$125,687	TISHKOFF 93-NA-252	
(AASERT-93) HEAT TRANSFER, FOULING, AND COMBUSTION OF SUPERCRITICAL FUELS Univ of Iowa	Chen Lea	N 36 05/04/93 \$87,858	TISHKOFF 93-NA-253	
(SABR-FY93) A STUDY OF COMPRESSIBLE TURBULENCE Nielsen Engineering and Research Co	Childs Robert	N 24 07/04/93 \$386,796	A SAKELL 93-NA-254	\$232,078 31/07/93 \$386,796
(AASERT-FY93) A FUNDAMENTAL STUDY OF UNSTEADY HYPERSONIC SHOCK- WAVE INTERACTIONS Univ of Maryland	Lewis Mark	N 36 07/04/93 \$96,975	D SAKELL 93-NA-256	
(AASERT-93) ACTUATORS AND SENSORS FOR COMPLEX INTELLIGENT STRUCTURES Massachusetts Institute of Technology	Crawley Edward	N 36 07/04/93 \$180,327	A WU 93-NA-257	\$105,309 31/08/93 \$105,309

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(AASERT-93) RESEARCH IN MECHANICS OF NONLINEAR STRUCTURAL SYSTEMS Texas A and M Research Foundation	Junkins John	N 36 07/04/93 \$220,726	D WU 93-NA-258	
(AASERT-FY93) JET WELL WITH HEAT TRANSFER Univ of Arizona	Ortega Alfonso	N 24 07/04/93 \$152,876	MCMICHAEL 93-NA-259	
(AASERT-93) EXPERIMENTAL METHODS TO STUDY GLOBAL STABILITY AND MODAL INTERACTIONS IN STRUCTURES Pennsylvania State University	Cusumano Joseph	N 36 07/04/93 \$179,204	D WU 93-NA-260	
(AASERT-FY93) ANISOTROPIC TURBULENCE EFFECTS USING THE RNG K-E TRANSPORT MODEL Princeton University	Orszag Steven	N 36 07/04/93 \$135,575	MCMICHAEL 93-NA-261	
(AASERT-FY93) RESEARCH TRAINING IN OPTICAL PROPAGATION THROUGH TURBULENT SHEAR FLOWS Univ of New Mexico	Truman E Randall	N 36 08/04/93 \$125,557	MCMICHAEL 93-NA-262	
(AASERT-FY93) APPLICATION OF MICRO-ELECTRO-MECHANICAL SENSORS AND ACTUATORS IN THE INVESTIGATION OF SUPERSONIC JET RESEARCH Illinois Institute of Technology	Magib Hassan	N 36 08/04/93 \$169,197	A MCMICHAEL 93-NA-263	\$169,197 01/08/93 \$169,197
(AASERT-FY93) RESEARCH TRAINING IN ADVANCED OPTICAL IMAGING DIAGNOSTICS Univ of Michigan	Dahn Werner J A	N 36 08/04/93 \$143,121	MCMICHAEL 93-NA-264	
(AASERT-FY93) MEMS-BASED DIAGNOSTICS FOR TURBULENT SHEAR FLOWS Georgia Institute of Tech	Glezer Arj	N 36 08/04/93 \$121,716	A MCMICHAEL 93-NA-265	\$121,716 01/08/93 \$121,716
(SBR-93) A HIGH THRUST DENSITY, C60 CLUSTER, ION THRUSTER Jusek Co. Inc.	Mruby V	N 24 09/04/93 \$747,093	A BIRKAN 93-NA-266	\$409,200 31/08/93 \$682,000

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FY93 AFOSR SUPPORT FOR THE JANNAF INTERAGENCY PROPULSION COMMITTEE Office of Naval Research	Venuto Thomas	N 04 12/04/93 \$20,000	A TISHKOFF 93-NA-267	\$20,000 01/06/93 \$20,000
(ASERT-93) ELECTRON BEAM FLUORESCENCE MEASUREMENT OF HYDROGEN Univ of California, San Diego	Williams Forman	N 24 14/04/93 \$93,832	BIRKAN 93-NA-268	
(ASERT-93) FUNDAMENTAL BEHAVIOR OF CATHODE ARC ATTACHMENT IN ARCJET PROPULSION DEVICES Stanford University	Cappelli Mark	N 24 14/04/93 \$115,115	A BIRKAN 93-NA-269	\$115,115 01/08/93 \$115,115
(ASERT-93) THEORY AND EXPERIMENTS FOR FLUID-STRUCTURE-CONTROL INTERACTION PHENOMENON IN EVOLUTIONARY SYSTEMS Texas A and M University	Kurdilla Andrew	N 24 14/04/93 \$225,855	D WU 93-NA-270	
(ASERT-93) CHARACTERIZATION OF JOINT NONLINEAR STIFFNESS AND DAMPING BEHAVIOR FOR INVERSE DYNAMICS OF FLEXIBLE ARTICULATED STRU Univ of California, Santa Barbara	Bayo Eduardo	N 24 14/04/93 \$99,934	A WU 93-NA-271	\$99,304 31/08/93 \$99,934
(ASERT-FY93) TOUGHENING OF BRITTLE MATERIALS Univ of Illinois	Chudnovsky Alexander	N 36 15/04/93 \$79,658	A JONES 93-NA-272	\$79,145 15/08/93 \$79,658
(ASERT-FY93) DEVELOPMENT OF NONLINEAR PIEZOELECTRIC CONSTITUTIVE MODELS Purdue University	Sun C T	N 36 15/04/93 \$75,033	JONES 93-NA-273	
(ASERT-FY93) COMPUTER SIMULATION OF CRACK INITIATION OF CANOPY GRADE POLYCARBONATE Univ of Illinois	Chudnovsky Alexander	N 36 15/04/93 \$79,658	JONES 93-NA-274	
(ASERT-FY93) SUPPORT FOR ANALYTICAL MODELING OF HIGH RATE PROCESSES University of Alabama	Jones Stanley	N 36 15/04/93 \$158,716	JONES 93-NA-275	

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CAASERT-FY93) DEVELOPMENT OF A FORMAL PROCEDURE FOR TARGET JETERMINATION BASED ON QUALITY FUNCTION DEPLOYMENT (QFD) Univ of Michigan	Liker Jeffery	N 24 15/04/93 \$83,091	JONES 93-NA-276	
CAASERT-FY93) BODY-IN-WHITE TECHNOLOGY TRANSFER Univ of Michigan	Hancock Walton	N 36 15/04/93 \$127,503	JONES 93-NA-277	
CAASERT-FY93) SET-BASED CONCURRENT ENGINEERING PROCESSES Univ of Michigan	Ward Allen	N 24 15/04/93 \$73,292	JONES 93-NA-278	
CAASERT-93) THERMOMECHANICAL ANALYSIS OF CARBON-CARBON COMPOSITES Texas Engineering Experiment Center	Ochoa Orden	N 24 15/04/93 \$125,533	A JONES 93-NA-279	\$125,533 15/08/93 \$125,533
CAASERT-93) NONDESTRUCTIVE METHODS FOR EVALUATING DAMAGE EVOLUTION AND MATERIALS BEHAVIOR IN METAL MATRIX COMPOSITES Univ of Dayton	Karpur Prasanna	N 24 15/04/93 \$167,167	A JONES 93-NA-280	\$80,000 15/08/93 \$80,000
CAASERT-93) INTERFACIAL PROPERTIES OF HIGH TEMPERATURE COMPOSITES Northwestern University	Keer Leon	N 24 15/04/93 \$383,606	JONES 93-NA-281	
CAASERT-93) MODELING AND CHARACTERIZING THE DYNAMIC MECHANICAL BEHAVIOR OF HAVERSIAN COMPACT BONE TISSUE AS A BIOLOGICAL COMP MAT Texas A and M University	Hogan Harry	N 24 15/04/93 \$136,492	JONES 93-NA-282	
CAASERT-93) THREE-DIMENSIONAL CRACK ANALYSIS FOR COMPOSITES AND THIN LAYERS Northwestern University	Keer Leon	N 24 15/04/93 \$216,035	JONES 93-NA-283	
CAASERT-93) INELASTIC RESPONSE OF TMC AT ELEVATED TEMPERATURE Univ of Virginia	Horakovich Carl	N 24 15/04/93 \$224,789	JONES 93-NA-284	

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THE EFFECTS OF MICROCRACKS AND IMPERFECT INTERFACE ON THE THERMOELASTIC RESPONSE AND FAILURE OF COMPOSITES Materials Sciences Corp	Hashin	N 36 16/04/93 \$184,831	A JONES 93-NA-285	\$58,477 15/07/93 \$184,486
CONSTRUCTED CIVIL INFRASTRUCTURE SYSTEMS (CCIS) IN THE EUROPEAN COMMUNITY Civil Engineering Research Foundation	Bernstein	N 12 16/04/93 \$10,000	A LEWIS 93-NA-266	\$10,000 01/06/93 \$10,000
NASA AMES COMPUTER GRAPHICS SUPPORT FOR PARVIZ MOIN				
NASA - Ames Research Center	Rogallo	N 12 16/04/93 \$15,000	A SAKELL 93-NA-287	\$15,000 01/10/92 \$15,000
A NOVEL MICROSTRUCTURAL MECHANICS OF PARTICULATE SOLIDS Univ of California, Berkeley	Ferrari	N 36 19/04/93 \$419,014	LEWIS 93-NA-288	
STUDY OF THREE-DIMENSIONAL CRACK INITIATION AND PROPAGATION IN TRANSPARENT BRITTLE MATERIAL SUBJECT TO COMPRESSION Univ of Oklahoma	Germanovich	N 36 19/04/93 \$554,885	JONES 93-NA-289	
TIME DOMAIN APPROACH FOR NONLINEAR RESPONSE OF HIGH SPEED AIRCRAFT SURFACE PANELS Columbia University	Vaicaitis	N 24 20/04/93 \$141,538	WU 93-NA-290	
LAMINAR-TURBULENT TRANSITION IN HIGH-SPEED COMPRESSIBLE BOUNDARY LAYERS WITH CURVATURE Purdue University	Schneider	N 36 21/04/93 \$214,707	A SAKELL 93-NA-291	\$55,580 01/10/93 \$214,707
EXPERIMENTAL INVESTIGATION OF EXTERNAL BURNING FOR INSTANTANEOUS MANEUVERING Applied Research Associates Inc	Finseth	N 36 21/04/93 \$765,153	SAKELL 93-NA-292	
STRUCTURE AND CONTROL OF THREE-DIMENSIONAL UNSTEADY FLOW ON DELTA WINGS AT HIGH ANGLE-OF-ATTACK Lehigh University	Rockwell	N 36 21/04/93 \$418,813	FANT 93-NA-293	

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COUPLED EXPERIMENTAL AND ANALYTICAL INVESTIGATIONS OF CREEP CRACK GROWTH IN METALLIC AND INTERMETALLIC MATERIALS Univ of South Carolina	Sutton, Ph.D.	N 36 22/04/93 \$706,323	JONES 93-NA-294	\$254,205 01/10/93 \$254,205
CHEMICAL MECHANISMS AT THE BURNING SURFACE Univ of Delaware	Brill	R 24 22/04/93 \$254,205	A BIRKAN 93-NA-295	\$254,205 01/10/93 \$254,205
SIMPLIFIED MODELS FOR SUPERCRITICAL EVAPORATION OF SINGLE DROPS FOR INCLUSION IN DENSE SPRAY MODELS Jet Propulsion Laboratory	Jollan	N 36 23/04/93 \$576,300	BIRKAN 93-NA-296	
LARGE EDDY SIMULATION OF TURBULENT FLOW OVER AN AIRFOIL Stanford University	Moin	N 18 28/04/93 \$176,135	A SAKELL 93-NA-297	\$115,000 01/10/93 \$176,135
DIRECT NUMERICAL SIMULATION OF COMPRESSIBILITY EFFECTS IN THE HIGH-SPEED, TURBULENT BOUNDARY LAYER Univ of California, San Diego	Sarkar	N 36 28/04/93 \$172,474	SAKELL 93-NA-298	
DIRECT NUMERICAL SIMULATION OF AN ENTROPY LAYER OVER A CURVED WALL WITH HEAT TRANSFER Purdue Research Foundation	Murthy	N 38 28/04/93 \$245,573	SAKELL 93-NA-299	
ACTIVE CONTROL OF STRUCTURAL VIBRATIONS BY VORTICITY PRODUCTION Boston University	Hose	N 36 29/04/93 \$128,157	WU 93-NA-300	
NEW PROCEDURES FOR INTERNAL INTERACTING FLOW ANALYSIS AND APPLICATIONS Univ of Cincinnati	Rubin	N 36 29/04/93 \$187,178	A SAKELL 93-NA-301	\$30,060 01/10/93 \$187,178
MICROMECHANISM BASED MODELING OF METAL MATRIX COMPOSITES SUBJECTED TO THERMAL TRANSIENTS Texas Engineering Experiment Center	Allen	N 36 30/04/93 \$327,647	JONES 93-NA-302	

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NONLINEAR ROTATIONAL ACOUSTIC PROCESSES IN SOLID ROCKET ENGINES Univ of Colorado	Kasoy David	R 25 30/04/93 \$249,565	A BIRKAN 93-NA-303	\$249,565 01/10/93 \$249,565
UNSTRUCTURED-GRID SOLUTION PROCEDURES FOR THE UNSTEADY BURNETT EQUATIONS AMTEC Engineering Inc	Imlay Scott	N 24 30/04/93 \$199,358	SAKELL 93-NA-304	
COMPUTER SUPPORT ON AFWL CRAY 2 FOR AFOSR SBIR PHASE II Air Force Weapons Lab	Mages Mary Ann	N 03 10/05/93 \$21,190	A SAKELL 93-NA-305	\$21,196 31/06/93 \$21,196
COMPUTATIONAL SIMULATION OF VERTICAL TAIL BUFFET USING A GENERIC MODEL NASA - Langley Research Center	Whitlow Jr Woodrow	N 12 10/05/93 \$35,000	A FANT 93-NA-306	\$35,000 01/10/93 \$35,000
AERONAUTICAL TRAINING AND MATERIALS RESEARCH Kansas State University	Reagan Charles	N 12 17/05/93 \$7,700,000	A FANT 93-NA-307	\$7,700,000 17/08/93 \$7,700,000
FUNDAMENTAL STUDIES OF NONEQUILIBRIUM TURBULENCE IN SUPERSONIC WING/BODY JUNCTION FLOWS State University of New York	Ladeinde Foluso	N 36 18/05/93 \$233,817	SAKELL 93-NA-308	
COMPUTATION OF UNSTEADY, THREE-DIMENSIONAL HYPERSONIC CAVITY FLOWS North Carolina State University	Chokani N	N 36 18/05/93 \$141,470	SAKELL 93-NA-309	
COEPSCOR-92) ACQUISITION OF MICRODRILLING/MICROMILLING/EDM EQUIPMENT Louisiana Tech University	Friedrich Craig	N 36 20/05/93 \$111,000	MCMICHAEL 93-NA-310	
MECHANICS OF CREEP STRENGTH FOR HIGH-TEMPERATURE METAL-MATRIX AND INTERMETALLIC-MATRIX COMPOSITES Rutgers, The State University	Hong George	N 24 20/05/93 \$259,142	JONES 93-NA-311	

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(DEPSCOR-92) DOPPLER GLOBAL VELOCIMETRY (DGV) INSTRUMENTATION West Virginia University	Kuhlman John	N 36 20/05/93 \$150,260	MCMICHAEL 93-NA-312	
STRUCTURE AND PROPERTIES OF MATERIALS FILLED WITH CONDUCTING FIBERS Cornell University	Koch Donald	N 24 20/05/93 \$262,490	JONES 93-NA-313	
(DEPSCOR-92) LABORATORY ENHANCEMENT FOR MULTIPHASE TRANSPORT STUDIES Auburn University	Guyen Oktaay	N 24 20/05/93 \$71,416	LEWIS 93-NA-314	
(DEPSCOR-92) AN INFRARED/RAMAN MICRO-SPECTROSCOPY SYSTEM FOR PARTICULATE ANALYSES Univ of Missouri	Tompson Robert	N 24 20/05/93 \$167,640	LEWIS 93-NA-315	
THE ROLE OF INSTABILITIES ON THE MECHANICAL RESPONSE OF CELLULAR SOLIDS AND STRUCTURES Univ of Texas	Kyriakides Stellios	N 36 20/05/93 \$246,336	JONES 93-NA-316	
(DEPSCOR-92) ACQUISITION OF INSTRUMENTATION TO ENHANCE AND EXPAND CAPABILITY OF CORROSION/MICRO ELECTRODE CORROSION SENSORS North Dakota State University	Bierwagen Gordon	N 24 20/05/93 \$108,965	JONES 93-NA-317	
PROBLEM OF INSTABILITY AND SCALE IN MEDIA WITH MICROSTRUCTURE Univ of Michigan	Triantafyllidis N	N 36 20/05/93 \$251,105	JONES 93-NA-318	
(DEPSCOR-92) COMPUTATIONAL FLUID DYNAMICS VISUALIZATION TOOLS Univ of Kentucky	McDonogh James	N 24 20/05/93 \$302,757	SAKELL 93-NA-319	
(DEPSCOR-92) EQUIPMENT FOR ENHANCING AND EXTENDING FLUID MECHANICS AND HEAT TRANSFER RESEARCH IN AEROENGINES Clemson University	Wang Ting	N 24 20/05/93 \$109,520	FANT 93-NA-320	

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THE INFLUENCE OF INTERFACE AND MATRIX PROPERTIES ON THE MECHANICAL PERFORMANCE OF CARBON-CARBON COMPOSITES Univ of California, Santa Barbara	Evans A	N 36 20/05/93 \$437,863	JONES 93-NA-321	
DEPSCOR-92) INSTRUMENTATION FOR INVESTIGATING PRECURSORS TO HIGH-REYNOLDS UNSTEADY FLOW SEPARATION Univ of Mississippi	Sinha Sumon	N 12 20/05/93 \$170,000	FANT 93-NA-322	
DEPSCOR-92) EXPERIMENTAL CAPABILITY FOR STUDYING FLIGHT DYNAMICS DUE TO UNSTEADY FLOW INTERACTIONS Oklahoma State University	Arena Andrew	N 12 20/05/93 \$142,640	FANT 93-NA-323	
RESEARCH IN STRUCTURAL DYNAMICS Georgia Institute of Tech	Jordichevsky Victor	N 36 20/05/93 \$225,580	WU 93-NA-324	
DEPSCOR-92) COMBUSTION RESEARCH INSTRUMENTATION Univ of Oklahoma	Gollahalli Subramanyam	N 24 21/05/93 \$73,837	TISHKOFF 93-NA-325	
DEPSCOR-92) COMBUSTION DIAGNOSTICS Univ of Alabama	Feikema Douglas	N 24 21/05/93 \$128,500	TISHKOFF 93-NA-326	
DEPSCOR-92) HIGH SPEED ATOMIZATION USING COAXIAL INJECTOR Univ of Missouri	Isaac Kakkattukuzhy	N 24 21/05/93 \$87,274	BIRKAN 93-NA-327	
DEPSCOR-92) VIRTUAL PROTOTYPING AND MANUFACTURING RESEARCH FACILITY Univ of Missouri	Alptekin Sema	N 24 21/05/93 \$124,607	BIRKAN 93-NA-328	
DEPSCOR-92) UNIVERSITY OF KANSAS DEPARTMENT OF AEROSPACE ENGR ENGINEERING STRUCTURAL DYNAMICS University of Kansas	Ewing Mark	N 24 21/05/93 \$96,000	WU 93-NA-329	

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COEPCOR-92) RESEARCH INSTRUMENTATION FOR SMART STRUCTURES LABORATORY Univ of Missouri	Rao	N 24 21/05/93 \$96,822	WU 93-NA-330	
COEPCOR-92) FRACTURE MECHANICS OF ADVANCED Tulane University	Larson	N 24 21/05/93 \$74,086	A JONES 93-NA-331	\$74,086 30/09/93 \$74,086
PERTURBED SUPERSONIC TURBULENT BOUNDARY LAYERS Ohio State Univ Research Foundation	Samimy	R 24 27/05/93 \$178,965	A SAKELL 93-NA-333	\$49,808 01/10/93 \$178,965
INVESTIGATION OF UNSTEADY THREE DIMENSIONAL FLOW PHENOMENA IN SUPERSONIC INLETS Univ of Cincinnati	Hamed	N 36 27/05/93 \$340,554	SAKELL 93-NA-334	
A FUNDAMENTAL STUDY OF HYPERSONIC UNSTARTS Univ of Maryland	Levis	R 12 27/05/93 \$36,500	SAKELL 93-NA-335	
TIME DELAYED CONTROL OF DISCRETE DYNAMIC SYSTEMS Univ of Southern California	Udvardi	N 36 07/06/93 \$327,039	WU 93-NA-336	
HYBRID TECHNIQUES IN COMPUTATIONAL FLUID DYNAMICS Mississippi State University	Soni	N 36 09/06/93 \$210,000	A SAKELL 93-NA-337	\$10,000 01/10/93 \$210,000
MICROSTRUCTURE INVESTIGATION OF ASPHALTIC CONCRETE MIXTURES Texas A and M University	Magnuson	N 36 09/06/93 \$300,000	LEWIS 93-NA-338	
STABILITY AND TRANSITION OF HYPERSONIC BOUNDARY - LAYER FLOWS Arizona State University	Reed	N 36 22/06/93 \$299,339	SAKELL 93-NA-339	

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TIME ACCURATE COMPUTATION OF UNSTEADY HYPERSONIC INLET FLOWS WITH DYNAMIC FLOW ADAPTIVE MESH North Carolina State University	McRae D Scott	R 36 22/06/93 \$290,202	SAKELL 93-NA-340	
INVESTIGATION OF SURNETT EQUATIONS FOR TWO-DIMENSIONAL HYPERSONIC FLOW Stanford University	Chapman Dean	R 12 22/06/93 \$84,775	A SAKELL 93-NA-341	\$77,710 01/11/93 \$84,775
EXPERIMENTAL INVESTIGATION OF THREE-DIMENSIONAL VORTEX-AIRFOIL INTERACTION IN A SUPERSONIC STREAM Polytechnic University	Kalkhoran Iraqi	N 36 22/06/93 \$320,146	FANT 93-NA-342	
DYNAMICS OF A PASSIVE SCALAR IN A TURBULENT JET Univ of New Mexico	Truman C Randall	R 36 22/06/93 \$343,690	MCMICHAEL 93-NA-343	
DYNAMICS AND CONTROL OF VARIABLE-CONFIGURATION, PRECISION SPACE STRUCTURES Virginia Polytechnic Inst & State Univ	Meirovitch Leonard	N 36 30/06/93 \$287,614	WU 93-NA-345	
MODERN METHODS FOR LOW ORDER MODELS IN NONLINEAR STRUCTURAL DYNAMICS Cornell University	Moon Francis	N 36 30/06/93 \$476,000	WU 93-NA-346	

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CHEMISTRY AND DYNAMICS OF HIGH ENERGY DENSITY MATERIALS IN SMALL CLUSTERS AND IN THE GAS PHASE National Inst. of Standards & Technology	Casassa	N 36 01/04/93 \$390,000	BERMAN 93-NC-277	
THERMAL PROPERTIES OF METAL ATOM-DOPED CRYOGENIC SOLIDS Brown University	Seidel	N 36 01/04/93 \$560,330	BERMAN 93-NC-278	
GEOMETRICAL ISOMERIZATION AND LIGHT METALLOID MOLECULE OXIDATION AS A MEANS OF PRODUCING HIGH IMPULSE PROPELLANTS Georgia Institute of Tech	Gole	N 36 01/04/93 \$309,022	BERMAN 93-NC-279	
QUANTUM STUDIES OF ATOMIC AND MOLECULAR IMPURITIES IN CRYOGENIC HYDROGEN Univ of California, Berkeley	Shaley	N 36 01/04/93 \$262,799	BERMAN 93-NC-280	
HIGH ENERGY DENSITY MATTER RESEARCH United Technologies Chemical Systems Div	Tzeng	N 36 01/04/93 \$385,334	BERMAN 93-NC-281	
SYNTHESIS OF NEW THERMALLY STABLE POLYMERS Rensselaer Polytechnic Institute	Moore	N 36 02/04/93 \$607,280	LEE 93-NC-282	
SPECTROSCOPIC STUDIES OF NEUTRAL AND IONIZED SOLID HYDROGEN AND GASEOUS HYDROGEN PLASMAS Univ of Chicago	Oka	N 36 02/04/93 \$702,724	BERMAN 93-NC-283	
RESONANCE ENHANCED MULTIPHOTON IONIZATION SPECTRA OF MOLECULES AND MOLECULAR FRAGMENTS California Institute of Technology	McKoy	N 36 06/04/93 \$252,459	BURGGRAF 93-NC-284	
RESEARCH ON MIXED MODE MODULES (HMMS) Strategic Analysis Inc	Whitson	N 36 16/04/93 \$1,539,948	A MEDBERG 93-NC-285	\$189,557 01/09/93 \$1,542,774

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ATOMIC PROCESSES IN FRACTURE Arizona State University	Spence J. C. H.	N 36 23/04/93 \$242,768	BURGGRAPH 93-MC-286	
SOL-GEL MELTED GLASSES: A COMPARATIVE STRUCTURAL STUDY BY NMR Rensselaer Polytechnic Institute	MacCrone Robert	N 36 27/04/93 \$338,951	D ERSTFELD 93-MC-287	
POLYMER BLEND PHASE BEHAVIOUR IN THE PRESENCE OF MECHANICAL STRESS AND ELECTRIC FIELDS Colorado State University	DeFlores Laurence	N 36 29/04/93 \$452,097	D LEE 93-MC-288	
MICROSCOPIC THEORY AND NONEMPIRICAL CALCULATIONS OF NONLINEAR OPTICAL EFFECTS IN ORGANIC MOLECULES AND SOLIDS State University of New York	Karna Shashi	N 36 07/05/93 \$300,000	BURGGRAPH 93-MC-289	
NEAR-UV PYRO-LASER DEVELOPMENT General Sciences Inc	Zavitsanos Peter	N 24 10/05/93 \$369,221	D BERMAN 93-MC-290	
DEPSCOR92 APPARATUS FOR THE PRODUCTION AND TESTING OF CARBON FIBERS FROM COAL-DERIVED FEEDSTOCKS West Virginia University	Zondlo John	N 12 10/05/93 \$268,800	ERSTFELD 93-MC-291	
DEPSCOR92 PREPARATION, OXIDATIVE STABILIZATION & CARBONIZATION OF MESOPHASE PITCH Michigan State University	Stevenson William T.	N 12 10/05/93 \$50,000	ERSTFELD 93-MC-292	
DEPSCOR92 CHARACTERIZATION OF DIAMOND THIN FILMS Auburn University	Asken Raymond	N 12 10/05/93 \$220,856	ERSTFELD 93-MC-293	
DEPSCOR92 ENGINEERING RESEARCH INSTRUMENTATION: ACQUISITION OF AN ULTRAHIGH VACUUM SPECIMEN PREPARATION CHAMBER Mississippi State University	Gardner Steven	N 12 10/05/93 \$40,000	ERSTFELD 93-MC-294	

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DEPSCOR92 A SIMS FACILITY FOR CARBON-CARBON COMPOSITE RESEARCH Kansas State University	Sherwood Peter M.	N 12 10/05/93 \$102,097	ERSTFELD 93-NC-295	
DEPSCOR92 ACQUISITION OF ATOMIC FORCE MICROSCOPE AND OPTICAL SCATTER MEASUREMENT SYSTEMS FOR THIN FILM FOCUS CHARACTERIZATION Oklahoma State University	Knobbe Edward	N 12 10/05/93 \$151,520	ERSTFELD 93-NC-296	
DEPSCOR92 HIGH ENERGY MICROBEAM SYSTEM FOR ANALYSIS AND APPLICATION OF SURFACES AND THIN FILMS Univ of Southeastern Louisiana	Glass Gary	N 12 10/05/93 \$449,000	ERSTFELD 93-NC-297	
DEPSCOR92 INFRARED SPECTROSCOPY FOR ENHANCED CATALYSIS RESEARCH Univ of Tulsa	Abramson Martin	N 12 10/05/93 \$130,419	ERSTFELD 93-NC-298	
DEPSCOR92 UPGRADES TO 500 AND 400 MHZ NMR SPECTROMETERS University of Kansas	Vander Velde David	N 12 10/05/93 \$342,700	ERSTFELD 93-NC-299	
DEPSCOR92 ACQUISITION OF INSTRUMENTATION FOR CORROSION MEASUREMENT AND MICRO ELECTRODE-BASED North Dakota State University	Olverøgen Gordon	N 12 10/05/93 \$103,965	ERSTFELD 93-NC-300	
DEPSCOR92 GROWTH FACILITY FOR NANOCOMPOSITE FILMS Univ of Missouri	White Henry	N 12 10/05/93 \$120,000	ERSTFELD 93-NC-301	
DEPSCOR92 REQUEST FOR EQUIPMENT TO STUDY MECHANISMS OF MICROBIOLOGICALLY INFLUENCED CORROSION Montana State University	Lesandowski Zbigniew	N 12 10/05/93 \$60,040	HEDBERG 93-NC-302	
DEPSCOR92 ACQUISITION OF A SCANNING ELECTRON MICROSCOPE FOR STUDIES IN MATERIALS SCIENCE Tulane University	Allen Susan	N 12 10/05/93 \$360,000	HEDBERG 93-NC-303	

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JEPSCOR92 PURCHASE OF A SINGLE CRYSTAL X-RAY DIFFRACTOMETER North Dakota State University	Boudjouk	N 12 10/05/93 \$100,000	MEBERG 93-MC-304	
JEPSCOR92 ACQUISITION OF A SINGLE CRYSTAL X-RAY DIFFRACTOMETER University of Idaho	Shreve	N 12 10/05/93 \$178,726	MEBERG 93-MC-305	
JEPSCOR92 CERAMIC BEARING TECHNOLOGY AND LOW PRESSURE CVD DIAMOND SYNTHESIS Oklahoma State University	Komanduri	N 12 10/05/93 \$659,332	PECHENIK 93-MC-306	
JEPSCOR92 STUDIES OF MOLECULAR PROTECTIVE FILMS AT THE LITHIUM/POLYMER ELECTROLYTE INTERFACE Univ of Tulsa	Teeters	N 12 10/05/93 \$51,295	WILKES 93-MC-307	
JEPSCOR92 MASS SPECTROMETRY OF ELECTROCHEMICAL SYSTEMS Univ of Louisville	Faguy	N 12 10/05/93 \$156,750	WILKES 93-MC-308	
JEPSCOR92 ACQUISITION OF A HIGH TEMPERATURE-HIGH PRESSURE LIQUID CHROMATOGRAPHY/SIZE EXCLUSION CHROMATOGRAPHY SYSTEM Univ of South Carolina	Tour	N 12 11/05/93 \$107,000	LEE 93-MC-309	
JEPSCOR92 ACQUISITION OF SPOTTER DEPOSITION SYSTEM FOR ADVANCED STRUCTURAL COMPOSITE Univ of Alabama	Rigsbee	N 12 11/05/93 \$192,500	WARD 93-MC-310	
JEPSCOR92 EQUIPMENT FOR TESTING ADVANCED COMPOSITE STRUCTURES Washington University	Harmon	N 12 11/05/93 \$139,827	LEE 93-MC-311	
JEPSCOR92 EXTREME CLIMATE ACCELERATED WEATHERING FOR ENVIRONMENTAL DEGRADATION OF COMPOSITE MATERIALS Univ of New Orleans	Hui	N 12 11/05/93 \$109,800	LEE 93-MC-312	

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DEPSCOR92 TAILORED AND STRESS RESPONSIVE COMPOSITE INTERPHASES Univ of Southern Mississippi	Mathias Lon	N 12 11/05/93 \$135,000	LEE 93-MC-313	
DEPSCOR92 PURCHASE OF AN ENHANCED MAGNETIC PROPERTIES MEASUREMENT SYSTEM FOR CHEMICAL RESEARCH AT UNO Univ of New Orleans	JoConnor Charles	N 12 11/05/93 \$172,090	LEE 93-MC-314	
DEPSCOR92 ACQUISITION OF A METALLURGICAL OPTICAL MICROSCOPE Washington University	Krchavsek Robert	N 12 11/05/93 \$63,642	W LEE 93-MC-315	
DEPSCOR92 A PICOSECOND LASER SYSTEM FOR THE UNIVERSITY OF NEW ORLEANS Univ of New Orleans	Piotrowskiak Piotr	N 12 11/05/93 \$200,000	LEE 93-MC-316	
DEPSCOR92 ACQUISITION OF INSTRUMENTATION FOR FLUORESCENCE SPECTRO- METRY & OPTICAL MICROSCOPY OF SUBSTRATES FOR ODORANT BINDING RESEA Auburn University	Neely William	N 12 11/05/93 \$135,586	WEDBERG 93-MC-317	
DEPSCOR92 UPGRADE TO HIGH-FIELD SOLIDS NMR Univ of Missouri	Blum Frank	N 12 11/05/93 \$150,150	LEE 93-MC-318	
DEPSCOR92 MEASUREMENT OF RAPID SPECTROSCOPIC CHANGES IN POLYMERIC SYSTEMS Univ of Nebraska	Parkhurst Lawrence	N 12 11/05/93 \$107,940	LEE 93-MC-319	
DEPSCOR92 ULTRA HIGH SPEED OPTICS Alabama A&M University	Park Choong Bum	N 12 11/05/93 \$629,920	LEE 93-MC-320	
DEPSCOR92 FAR INFRARED FT SPECTROMETER FOR MATERIALS AND BIOCHEMICAL APPLICATIONS Univ of Nebraska	Erkhardt Craig	N 12 11/05/93 \$145,000	LEE 93-MC-321	

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DEPCOR92 X-RAY CHARACTERIZATION OF ELECTRONIC MAGNETIC, AND HIGH STRENGTH MATERIALS Michigan State University	Ho	N 12 11/05/93 \$103,900	LEE 93-MC-322	
DEPCOR92 ACQUISITION OF SPECTROSCOPY EQUIPMENT FOR USE IN THE STUDY OF NONLINEAR OPTICAL CRYSTALS West Virginia University	Halliburton	N 12 11/05/93 \$240,000	LEE 93-MC-323	
DEPCOR92 EXPERIMENTAL MULTIAXIAL CYCLIC PLASTICITY AND FATIGUE RESEARCH Univ of Tulsa	Tipton	N 12 11/05/93 \$206,375	WARD 93-MC-324	
DEPCOR92 HIGH RESOLUTION QUANTITATIVE IMAGE ANALYSIS SYSTEM Clemson University	Rack	N 12 11/05/93 \$119,000	WARD 93-MC-325	
DEPCOR92 STM STUDY OF CONFORMATION AND STRUCTURE OF ORGANIC MOLECULES ADSORBED ON GRAPHITE Univ of Missouri	Zhu	N 12 11/05/93 \$113,290	WARD 93-MC-326	
DEPCOR92 EQUIPMENT EXPANSION FOR THE ENHANCEMENT OF RESEARCH RELATED TO THE ADVANCED MATERIALS AND PROCESSES University of Idaho	Frees	N 12 11/05/93 \$225,062	WARD 93-MC-327	
DEPCOR92 HIGH TEMPERATURE X-RAY DIFFRACTOMETER FOR ADVANCED MATERIALS RESEARCH Washington University	Sastry	N 12 11/05/93 \$140,000	WARD 93-MC-328	\$91,000 30/09/93 \$91,000
DEPCOR92 STRUCTURAL KINETICS, A NOVEL TOOL USING GAS ELECTRON DIFFRACTION WITH A PULSED ELECTRON BEAM SYNCHRONOUS WITH PHOTOEXCI Univ of Arkansas	Embank John	N 12 11/05/93 \$184,044	BERMAN 93-MC-329	
DEPCOR92 COMPUTATIONS ON HIGH ENERGY COMPOUNDS - AN INSTRUMENTATION REQUEST Univ of Alabama	Krannich Larry	N 12 11/05/93 \$100,000	A BERMAN 93-MC-330	\$100,000 01/09/93 \$100,000

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DEPSCOR92 THE STUDY OF ION-ION COLLISIONS Kansas State University	Glese John	N 12 11/05/93 \$176,721	M BERMAN 93-NC-331	
DEPSCOR92 STATE-TO-STATE REACTIONS OF ELECTRONICALLY EXCITED PF, ASF AND MF MOLECULES Kansas State University	Setser Donald	N 12 11/05/93 \$58,020	BERMAN 93-NC-332	
DEPSCOR92 THEORETICAL CHEMICAL DYNAMICS STUDIES OF REACTIONS IN ENERGETIC MATERIALS Oklahoma State University	Thompson Donald	N 12 11/05/93 \$112,995	BURGGRAF 93-NC-333	
DEPSCOR92 THEORETICAL CHEMICAL DYNAMICS STUDIES OF HIGH ENERGY SYSTEMS Oklahoma State University	Thompson Donald	N 12 11/05/93 \$94,925	BURGGRAF 93-NC-334	
DEPSCOR92 RELAXOR FERROELECTRIC RESEARCH INSTRUMENTATION Montana State University	Schmidt V. Hugo	N 12 13/05/93 \$143,440	ERSTFELD 93-NC-335	
DEPSCOR92 PULSED LASER SYSTEM FOR STUDIES OF PHOTOREFRACTIVE MATERIALS AND DEVICES Univ of Nebraska	Gucharme Stephen	N 12 13/05/93 \$65,000	LEE 93-NC-336	
DEPSCOR92 " LASER SYSTEM FOR STUDIES OF NOVEL OPTICAL MATERIAL, AND DEVICES Auburn University	Thakur Mrinal	N 12 13/05/93 \$275,400	LEE 93-NC-337	
DEPSCOR92 TUNABLE DIODE LASER-BASED PLASMA DEPOSITION MONITORING SYSTEM Univ of Nebraska	Billesbach David	N 12 13/05/93 \$167,049	HEDBERG 93-NC-338	
EFFECT OF ALIOVALENT CATION DOPANTS ON THE CREEP BEHAVIOR OF POLYCRYSTALLINE V3AL5012 Univ of California, Irvine	Wolfenstine J.	N 24 13/05/93 \$80,700	PECHEMIA 93-NC-339	

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UNUSUAL FORMS OF OXYGEN FROM FROZEN GAS SPUTTERING Univ of Colorado	Michl Josef	N 36 18/05/93 \$395,028	BERMAN 93-NC-340	
DEPSCOR92 INSTRUMENTATION FOR GROWTH AND CHARACTERIZATION OF SINGLE CRYSTALLINE DIAMOND FILMS Univ of Alabama	Vonra Yogesh	N 12 18/05/93 \$96,000	ERSTFELD 93-NC-341	
DEPSCOR92 SURFACE ENGINEERING AND PROCESSING OF ADVANCED MATERIALS BY HIGH POWER LASER BEAM Univ of Kentucky	Kovacevic Radovan	N 12 18/05/93 \$113,330	WARD 93-NC-342	
DEPSCOR92 A TWO CHANNEL LASER DOPPLER VELOCIMETRY SYSTEM FOR COMBUSTION DIAGNOSTICS IN MATERIALS SYNTHESIS Univ of Missouri	Seaba James	N 12 18/05/93 \$162,013	WARD 93-NC-343	
DEPSCOR92 LASER INSTRUMENTATION FOR STUDIES OF OXYGEN ATOM REACTIONS IN VAN DER WAALS COMPLEXES Univ of Puerto Rico, Rio Piedras	Juinnones-Gonzalez Edain	N 12 18/05/93 \$55,186	BERMAN 93-NC-344	
DEPSCOR92 ACQUISITION OF LASER DIODE ABSORPTION SPECTROMETER FOR PLASMA DIAGNOSIS Univ of Missouri	Moroseoff Nicholas	N 12 18/05/93 \$136,914	ERSTFELD 93-NC-345	
DEPSCOR92 TRANSMISSION ELECTRON MICROSCOPE FOR ADVANCED DEFENCE RESEARCH Auburn University	Gale William	N 12 18/05/93 \$669,803	ERSTFELD 93-NC-346	
DEPSCOR92 A FTIR FOR COMBUSTION AND SURFACE CHEMISTRY STUDIES AT THE UNIVERSITY OF NORTH DAKOTA Univ of North Dakota	Schulz Kirk	N 12 18/05/93 \$55,000	ERSTFELD 93-NC-347	
DEPSCOR92 ACQUISITION OF A SMART RESIN TRANSFER MOLDING MACHINE Mississippi State University	Issa Camille	N 12 18/05/93 \$81,821	LEE 93-NC-348	

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INVESTIGATION OF DILUENT-POLYMER INTERACTIONS USING A SECOND HARMONIC GENERATING PROBE Univ of California, Berkeley	Soane David	N 36 21/05/93 \$290,407	D LEE 93-MC-349	
FINAL - ATOMISTICS OF FRACTURE Arizona State University	Spence J. C.	N 36 25/05/93 \$250,003	BERMAN 93-MC-350	
MOLECULAR PRECURSORS TO OXIDATION PROTECTIVE COATINGS FOR CARBON SUBSTRATES Northeastern University	Kirss Rein	N 36 04/06/93 \$264,642	ERSTFELD 93-MC-351	
PHOTOREFRACTIVE POLYMERS A.C.C., Science & Technology Inc.	Findakly Talal	N 48 07/06/93 \$1,078,168	LEE 93-MC-352	
ESTABLISHMENT OF A CENTER FOR ENVIRONMENTAL MEDICINE AT THE MEDICAL COLLEGE OF OHIO Medical College of Ohio	Goldblatt Peter	N 12 21/06/93 \$250,000	A HEDBERG 93-MC-353	\$250,000 15/09/93 \$250,000
INVESTIGATION OF LOWER DISORDER-ORDER TRANSITIONS IN BLOCK COPOLYMER METLS Massachusetts Institute of Technology	Mayes Anne	N 36 30/06/93 \$217,723	LEE 93-MC-354	
METALLO-CARBONEDRENES - STUDY OF A NEW CLASS OF MATERIALS Pennsylvania State University	Castleman, Jr. A.	N 36 30/06/93 \$478,501	BERMAN 93-MC-355	

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RUSSIAN PROPOSAL ON OBJECT-ORIENTED PLASMA MODELING European Office of Aero Resch and Develop	Hackett	N 12 01/04/93 \$24,950	A BARKER 93-NE-362	\$24,950 01/04/93 \$24,950
CAASERT-93) IN-SITU DOPING OF ORGANIC POLYMERS FOR OPTICAL WAVEGUIDES AND DEVICES Washington University	Krchavek	N 36 01/04/93 \$117,291	D SCHLOSSBER 93-NE-363	
CAASERT-93) VISIBILE LASERS IN FIBERS AND WAVEGUIDES; NEW X-RAY GENERATING TARGETS Univ of Illinois	Eden	N 36 01/04/93 \$174,021	D SCHLOSSBER 93-NE-364	
CAASERT-93) THIN FILM TRANSISTOR FABRICATION FROM BORON CARBIDE AND CHARACTERIZATION OF SEMICONDUCTING BORON CARBIDE Syracuse University	Peter	N 36 01/04/93 \$108,311	WITT 93-NE-365	
CAASERT-93) ANTIPROTONS AND ANTIHYDROGEN Harvard University	Gardielse	N 36 01/04/93 \$276,975	D KELLEY 93-NE-366	
RESEARCH SUPPORT FOR THE RESEARCH CENTER FOR OPTICAL PHYSICS Iampton University	Maclin	N 36 01/04/93 \$1,249,304	SCHLOSSBER 93-NE-367	
NOVEL LASER PHYSICS: LASING WITHOUT INVERSION AND ENHANCEMENT OF INDEX OF REFRACTION Prairie View A and M Research Foundation	Jentley	N 36 01/04/93 \$510,806	SCHLOSSBER 93-NE-368	
CSBR-PHASE II) ADVANCED MICROWAVE FREQUENCY SOURCES AND FILTERS BASED ON SUPERCONDUCTING PHOTONIC BAND GAP (PBG) STRUCTURES Tristan Technologies	Anderberg	N 24 05/04/93 \$757,781	POMRENKE 93-NE-369	
CSBR-93 PHASE II) HTS S-N-S TECHNOLOGY FOR DIGITAL LOGIC Conducdus, Inc.	Simon	N 24 05/04/93 \$747,356	A WEINSTOCK 93-NE-370	\$363,329 01/08/93 \$747,356

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MANUFACTURING/MANOTECHNOLOGY Cornell University	Craighead Harold	N 36 06/04/93 \$746,143	A WITT 93-NE-371	\$160,000 01/08/93 \$746,143
HIGH-SPEED COMMUNICATIONS NETWORKING USING SPECTRALLY ENCODED ULTRASHORT LIGHT PULSES: TECHNOLOGY AND SYSTEMS STUDIES Purdue Research Foundation	Andrew Andrew	N 48 08/04/93 \$664,670	CRAIG 93-NE-372	
COHERENT MICROWAVE AND MILLIMETER WAVE RADIATION FROM RELATIVISTIC ELECTRON BEAMS Massachusetts Institute of Technology	Geoff George	N 36 08/04/93 \$495,000	BARKER 93-NE-373	
THE MPX (MICROWAVE-PLASMA-EXHAUST) ROCKET ENGINE EXPERIMENT Research Support Instruments Inc	Brandenburg John	N 18 08/04/93 \$207,667	BARKER 93-NE-374	
MICRO-COLUMN ARRAYS FOR MANOLITHOGRAPHY IBM Thomas J. Watson Research Center	Chang T. H. Philip	N 36 23/04/93 \$1,588,629	A WITT 93-NE-375	\$390,000 01/09/93 \$1,588,629
INVESTIGATIONS OF PLASMAS ARC JET PHENOMENA Phillips Laboratory	Mullins Billy	N 05 23/04/93 \$55,968	A BARKER 93-NE-376	\$55,968 01/05/93 \$55,968
FIRST INTERNATIONAL SYMPOSIUM ON LONG WAVELENGTH INFRARED DETECTORS: PHYSICS AND APPLICATIONS Electrochemical Society, Inc.	Calvo Roque	N 45 27/04/93 \$3,000	POMREKKE 93-NE-377	
II-V MATERIAL AND DEVICES FOR HIGH TEMPERATURE ELECTRONICS AND ULTRAVIOLET EMITTERS Northeast Consortium for Engineering Edu	Everett, Jr Woodrow	N 36 27/04/93 \$598,101	WITT 93-NE-378	
CSAR PHASE I) NEW THIN-FILM NONLINEAR OPTICAL MATERIALS: ORDERED AL(1-X)IN(X)P ON GaAs Spire Corp.	Vernon Stanley	N 06 27/04/93 \$76,193	A POMREKKE 93-NE-379	\$76,193 01/08/93 \$76,193

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LOW AND SUPER-EMISSIVE CATHODE-BASED WAVES AND BEAMS Univ of Southern California	Gundersen Matrin	N 36 30/04/93 \$407,425	BARKER 93-NE-380	
MICROCAVITY EMISSION STUDIES New Mexico State University	Armstrong Robert	N 36 30/04/93 \$511,385	J SCHLOSSER 93-NE-381	
ULTRAVIOLET EMISSION CROSS SECTIONS BY ELECTRON IMPACT: APPLICATION TO UV DAYGLOW AND AURORAL SATELLITE OBSERVATIONS California Institute of Technology	J Ajoello	N 36 03/05/93 \$474,900	KELLEY 93-NE-382	
EXPERIMENTAL INVESTIGATION OF LARGE RF INDUCTIVE DISCHARGE PLASMA GENERATORS FOR MICROWAVE APPLICATION Univ of California, Berkeley	Morse Edward	N 36 03/05/93 \$690,850	BARKER 93-NE-383	
SOLID STATE PARAMETRIC AMPLIFIER STUDY California Applied Physics	Ensley Donald	N 12 03/05/93 \$44,600	BARKER 93-NE-384	
ABSORPTION, BACKSCATTERING AND MIRROR REFLECTION FROM LASER AND MICROWAVE PRODUCED PLASMAS Univ of Wisconsin	Scharer John	N 36 05/05/93 \$597,151	BARKER 93-NE-385	
HIGH ENERGY PULSED MICROWAVE SOURCES Cornell University	Nation John	N 36 06/05/93 \$715,583	BARKER 93-NE-386	
HIGH EFFICIENCY VACUUM AND PLASMA-FILLED BACKWARD-WAVE OSCILLATORS: A CRITICAL EVALUATION Univ of New Mexico	Schamiloğlu Edi	N 36 07/05/93 \$699,460	BARKER 93-NE-387	
COHERENT TRANSIENT SYSTEMS DEVELOPMENT Univ of Washington	Babbitt William Randall	N 40 07/05/93 \$510,515	A CRAIG 93-NE-388	\$127,000 01/08/93 \$460,515

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COMPUTER SIMULATIONS OF RADIATION GENERATION FROM RELATIVISTIC ELECTRON BEAMS Univ of California, Los Angeles	Lin Anthony	N 36 10/05/93 \$375,000	A BARKER 93-NE-389	\$121,000 01/10/93 \$375,000
(DEPSCOR-92) INSTRUMENTATION FOR SPECTROSCOPIC STUDY ON PICOSECOND PHOTODYNAMICS OF SOLID STATE OPTICAL MATERIALS Univ of Puerto Rico	Liu Muisin	N 36 10/05/93 \$106,701	POMRENKE 93-NE-390	
(DEPSCOR-92) EXPERIMENT PROPOSAL FOR HBT/ADC TEST SUPPORT Univ of Maine	Irons Fred	N 36 10/05/93 \$137,443	POMRENKE 93-NE-391	
(DEPSCOR-92) EQUIPMENT ACQUISITION FOR FERROELECTRIC THIN FILM MATERIALS DEVELOPMENT North Dakota State University	Dunn Douglas	N 36 10/05/93 \$39,780	POMRENKE 93-NE-392	
(DEPSCOR-92) ACQUISITION OF SPECTROSCOPY EQUIPMENT FOR USE IN THE STUDY OF NONLINEAR OPTICAL CRYSTAL West Virginia University	Halliburton Larry	N 36 11/05/93 \$240,000	POMRENKE 93-NE-393	
(DEPSCOR-92) PHOTOREFRACTIVE MATERIALS FOR IMAGE CONTRAST ENHANCEMENT AND OPTICAL LIMITING APPLICATIONS Univ of Arkansas	Salano Gregory	N 36 11/05/93 \$96,000	POMRENKE 93-NE-394	
(DEPSCOR-92) PHOTOREFRACTIVE STRONTIUM BARIUM NIOBATE (SBN) FOR IMAGE STORAGE AND SENSOR PROTECTION Univ of Arkansas	Salano Gregory	N 36 11/05/93 \$96,000	POMRENKE 93-NE-395	
(DEPSCOR-92) ENHANCED SECOND HARMONIC GENERATION USING THE PHOTOREFRACTIVE EFFECT Univ of Arkansas	Salano Gregory	N 36 11/05/93 \$104,000	POMRENKE 93-NE-396	
(DEPSCOR-92) ULTRA-FAST MEASUREMENTS OF CARRIER TRANSPORT AND SPACE CHARGE FIELD FORMATION IN COMPOUND SEMICONDUCTORS Univ of Arkansas	Salano Gregory	N 36 11/05/93 \$96,000	POMRENKE 93-NE-397	

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(DEPSCOR-92) MOLECULAR BEAM EPITAXY SYSTEM FOR GROWTH OF SEMICONDUCTOR METEROSTRUCTURES Louisiana State University	Ajmera Pratul	N 36 11/05/93 \$340,000	POMRENKE 93-NE-398	
(DEPSCOR-92) MICROWAVE PLASMA REACTOR FOR DEPOSITING DIAMOND-CUBIC BORON NITRIDE ALLOYS Kansas State University	Edgar James	N 36 11/05/93 \$135,100	POMRENKE 93-NE-399	
(DEPSCOR-92) ULTRAFAST PULSED APPLICATIONS TO PHOTONIC DEVICE MATERIALS AND MBE GROWTH RESEARCH Oklahoma State University	Song Jin-Joo	N 36 11/05/93 \$118,680	A POMRENKE 93-NE-400	\$118,680 30/09/93 \$118,680
(DEPSCOR-92) PULSED LASER DEPOSITION SYSTEM FOR WIDE BANDGAP SEMICONDUCTORS GROWTH Kansas State University	Jiang Hongxing	N 36 12/05/93 \$151,000	POMRENKE 93-NE-401	
(DEPSCOR-92) A MOLECULAR BEAM EPITAXY BASED NITRIDE RESEARCH PROGRAM Univ of Nebraska	Ianno Natale	N 36 12/05/93 \$229,200	POMRENKE 93-NE-402	
(DEPSCOR-92) MODELING THE GROWTH OF ELECTRONIC MATERIALS Iuburn University	Chen An-Ran	N 36 12/05/93 \$50,214	POMRENKE 93-NE-403	
(DEPSCOR-92) EQUIPMENT TO SUPPORT MATERIALS SCIENCE RESEARCH Univ of Vermont	Varhue Walter	N 36 12/05/93 \$2,922,470	POMRENKE 93-NE-404	
(DEPSCOR-92) INSTRUMENTATION REQUEST FOR DEVELOPMENT OF HIGH BANDGAP MATERIALS Univ of Missouri	Stacy Tina	N 36 12/05/93 \$141,457	POMRENKE 93-NE-405	
(DEPSCOR-92) WIDEBAND TUNABLE LASER-OPTICAL SPECTROMETER SYSTEMS Univ of South Carolina	Sudarshan Tangali	N 36 12/05/93 \$120,184	POMRENKE 93-NE-406	

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(DEPSCOR-92) NOVEL THIN FILMS OF FERROELECTRIC PEROVSKITES FOR OPTOELECTRONICS APPLICATIONS Univ of Puerto Rico, Rio Piedras	Kalyar	N 36 12/05/93 \$186,420	WITT 93-NE-607	
(DEPSCOR-92) DEVELOPMENT OF IN-SITU INTEGRATED PROCESSING LABORATORY Clemson University	Singh	N 36 12/05/93 \$938,020	WITT 93-NE-608	
(DEPSCOR-92) INSTRUMENTATION FOR SUBMICRON FABRICATION OF NOVEL FILMS AND DEVICES Univ of Nebraska	Sellmeyer	N 36 12/05/93 \$240,000	WITT 93-NE-609	
(DEPSCOR-92) PHOTOELECTRON DETECTOR FOR ATOMIC RESOLUTION SPACIAL IMAGES OF NANOSCALE SEMICONDUCTOR AND MAGNETIC SYSTEM Montana State University	Gerald	N 36 12/05/93 \$285,000	WITT 93-NE-610	
(DEPSCOR-92) ACQUISITION OF A SCANNING ELECTRON MICROSCOPE FOR STUDIES IN MATERIALS SCIENCE Tulane University	Allen	N 36 12/05/93 \$360,000	WITT 93-NE-611	
(DEPSCOR-92) XPX FOR THIN FILM RESEARCH, INCLUDING SUPERCONDUCTING AND DIAMOND MULTICHIP MODULES Univ of Arkansas	Schaper	N 36 12/05/93 \$540,096	WITT 93-NE-612	
(DEPSCOR-92) STM/AFM FOR THIN FILM RESEARCH, INCLUDING SUPERCONDUCTING AND DIAMOND MULTICHIP MODULES Univ of Arkansas	Schaper	N 36 12/05/93 \$126,539	WITT 93-NE-613	
(DEPSCOR-92) VECTOR NETWORK ANALYZER FOR HIGH FREQUENCY DEVICE AND PACKAGE RESEARCH Tuburn University	Wentworth	N 36 12/05/93 \$96,132	WITT 93-NE-614	
(DEPSCOR-92) INSTRUMENTATION FOR TRANSIENT OPTICAL STUDIES NEAR THE QUANTUM LIMIT Montana State University	Carlsten	N 36 12/05/93 \$100,000	WITT 93-NE-615	

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(DEPSCOR-92) MASK ALIGNER FOR SEMICONDUCTOR FABRICATION				
S.O. School of Mines & Technology	Meiners	N 36 12/05/93 \$74,270	WITT 93-NE-416	\$313,604 01/09/93 \$313,604
(DEPSCOR-92) EQUIPMENT RESOURCES FOR MCM TECHNOLOGY AND SYSTEM PROTOTYPING				
West Virginia University	Hornak	N 36 12/05/93 \$313,604	WITT 93-NE-417	\$313,604 01/09/93 \$313,604
(DEPSCOR-92) POWER MEASUREMENT AND CURRENT FEEDBACK IN A RESONANT DC LINK INVERTER				
North Dakota State University	Yuvarajan	N 36 12/05/93 \$45,000	WITT 93-NE-418	\$45,000 01/09/93 \$45,000
(DEPSCOR-92) A HIGH POWER LASER SYSTEM FOR EXPERIMENTAL STUDIES OF THE INTERACTION OF NEGATIVE IONS WITH INTENSE ELECTROMAGNETIC				
Univ of Nevada	Thompson	N 36 12/05/93 \$106,750	BARKER 93-NE-419	\$57,174 30/09/93 \$57,174
(DEPSCOR-92) HIGH PERFORMANCE ELECTROMAGNETIC SIMULATION TOOLS				
Univ of Kentucky	Wedney	N 36 12/05/93 \$135,462	BARKER 93-NE-420	\$57,174 30/09/93 \$57,174
(DEPSCOR-92) WORKSTATION FOR PARTICLE SIMULATIONS OF PLASMAS				
Univ of Missouri	Murphy	N 36 12/05/93 \$57,174	BARKER 93-NE-421	\$57,174 30/09/93 \$57,174
(DEPSCOR-92) TUNABLE LASER FOR PERSISTENT SPECTRAL HOLE BURNING OPTICAL MEMORIES				
Montana State University	Cone	N 36 12/05/93 \$112,500	CRAIG 93-NE-422	\$112,500 30/09/93 \$112,500
(DEPSCOR-92) TESTBED FOR PRECISION CHARACTERIZATION OF SPATIAL LIGHT MODULATORS AND OPTICAL PROCESSORS				
Univ of Louisville	Conn	N 36 12/05/93 \$113,220	CRAIG 93-NE-423	\$112,500 30/09/93 \$112,500
(DEPSCOR-92) ULTRA HIGH SPEED OPTICS				
Alabama A&M University	Park	N 36 12/05/93 \$619,920	CRAIG 93-NE-424	\$112,500 30/09/93 \$112,500

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(DEPSCOR-92) HIGH RESOLUTION X-RAY IMAGING INSTRUMENTATION Louisiana State University	Defel John	N 36 12/05/93 \$143,016	SCHLOSSBER 93-NE-425	
(DEPSCOR-92) WYOMING FAST PULSED VISIBLE LASER FACILITY Univ of Wyoming	Moorman Leo	N 36 12/05/93 \$83,295	SCHLOSSBER 93-NE-426	
(DEPSCOR-92) HIGH TC VORTEX IMAGING WITH AN ATOMIC FORCE MICROSCOPE Univ of Kentucky	Ng Kwok-Wai	N 36 12/05/93 \$140,000	BARKER 93-NE-427	
(DEPSCOR-92) NONDESTRUCTIVE EVALUATION METHODS USING INTELLIGENT MULTICHANNEL INSTRUMENTATION Univ of Missouri	Herrick Thomas	N 36 12/05/93 \$79,350	BARKER 93-NE-428	
(DEPSCOR-92) PROCUREMENT OF A LASER-ULTRASONIC MEASUREMENT SYSTEM Univ of Kentucky	Man Chi-Sing	N 36 12/05/93 \$84,320	BARKER 93-NE-429	
(DEPSCOR-92) ELECTROCHROMIC GLASS AS MEMORY DEVICES Univ of Louisville	Onseph P	N 36 12/05/93 \$80,000	BARKER 93-NE-430	
(DEPSCOR-92) RESEARCH EQUIPMENT/INSTRUMENTATION FOR HIGH TEMPERA- TURE SUPERCONDUCTIVITY MATERIAL RESEARCH/APPLICATION DEVELOPMENT University of Kansas	Wong Kai Wai	N 36 12/05/93 \$311,484	BARKER 93-NE-431	
(CAASERT-92) A CAD SYSTEM FOR OPTICAL WAVEGUIDE CIRCUITS: A "SPICE" PROGRAM FOR TYPICAL CIRCUITS Columbia University	Osgood, Jr Richard	N 36 13/05/93 \$105,249	A SCHLOSSBER 93-NE-432	\$105,249 15/07/93 \$105,249
(CAASERT-92) QUANTUM DEVICE FABRICATION BASED ON HIGH RESOLUTION PATTERNING WITH REACTIVE NEUTRAL BEAMS Columbia University	Osgood, Jr Richard	N 36 13/05/93 \$105,249	A SCHLOSSBER 93-NE-433	\$105,249 15/07/93 \$105,249

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DEPSCOR-92) GROWTH, ELECTRICAL/OPTICAL PROPERTIES OF BAMF(4) (M=4G, 2N, MN) FILMS AND MULTILAYER STRUCTURES GROWN BY MOLECULAR University of Puerto Rico	Martinez Antonio	N 36 13/05/93 \$70,000	CRAIG 93-NE-434	\$63,642 30/09/93 \$63,642
DEPSCOR-92) ACQUISITION OF A METALLURGICAL OPTICAL MICROSCOPE Washington University	Krchavek Robert	N 36 13/05/93 \$63,642	A SCHLOSSBER 93-NE-435	\$63,642 30/09/93 \$63,642
DEPSCOR-92 SURFACE ENGINEERING/PROCESSING OF ADVANCED MATERIALS 3W HIGH POWER LASER BEAM Univ of Kentucky Research Foundation	Kavacevic Radovan	N 36 13/05/93 \$113,330	M SCHLOSSBER 93-NE-436	
DEPSCOR-92 INSTRUMENTATION FOR GROWTH AND CHARACTERIZATION OF SINGLE CRYSTALLINE DIAMOND FILMS Univ of Alabama	Vohra Yogesh	N 36 13/05/93 \$96,000	M POMRENKE 93-NE-437	
DEPSCOR-92 SINGLE MODE TWENTY ATMOSPHERE CO2 LASER University of Alabama	Izatt Jerald	N 36 13/05/93 \$205,330	WITT 93-NE-438	
DEPSCOR-92 STUDIES OF NANOCOMPOSITE MATERIALS WITH GIANT MAGNETORESISTANCE Univ of New Orleans	Tang Jinke	N 36 13/05/93 \$147,675	WITT 93-NE-439	
PHYSICS OF BACKWARD WAVE OSCILLATORS IN HIGH POWER REGIMES Univ of California, Irvine	Benford Gregory	N 36 14/05/93 \$651,024	BARKER 93-NE-440	
INTENSE X-RAY RADIATION FROM ELECTRONS TRAVERSEING CRYSTALS Catholic University of America	Uberall Herbert	N 36 14/05/93 \$113,346	SCHLOSSBER 93-NE-441	
NOVEL COMPOSITE MATERIALS FOR NONLINEAR OPTICS AND INFORMATION STORAGE Brown University	Leaandy Nabil	N 36 14/05/93 \$793,800	A SCHLOSSBER 93-NE-442	\$180,000 01/12/93 \$540,000

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RESEARCH IN THE OPTICAL SCIENCES				
Univ of Arizona	Powell	N 36 14/05/93 \$2,100,000	SCHLOSSBER 93-NE-443	
DRIFT MOBILITY MEASUREMENTS IN THIN FILM GORDON CARBIDE				
Univ of Nebraska	Domben	N 12 17/05/93 \$40,928	A WITT 93-NE-444	\$40,928 01/10/93 \$40,928
INVESTIGATION OF SiC AS A HIGH TEMPERATURE BIPOLAR TRANSISTOR FOR POWER APPLICATIONS				
Univ of Illinois	Morkoc	N 12 18/05/93 \$12,150	A WITT 93-NE-445	
FAST-BEAM STUDIES OF THE ELECTRON-IMPACT IONIZATION OF NEUTRAL AND IONIC FREE RADICALS AND MOLECULES				
City University of New York	Socker	N 36 21/05/93 \$371,665	KELLEY 93-NE-446	
COMPLETION OF CURRENT CRYOGENIC HYDROGEN MASER RESEARCH				
Smithsonian Institution	Vessot	N 03 21/05/93 \$35,284	KELLEY 93-NE-447	
EXPERIMENTAL AND THEORETICAL STUDY OF HIGH CURRENT DENSITY NOVEL EMITTER SOURCES				
Pennsylvania State University	Cutler	N 36 21/05/93 \$657,562	BARKER 93-NE-448	
ELECTRON TRANSPORT IN QUANTUM STRUCTURES				
Univ of Notre Dame	Sandhyopadhyay	N 36 25/05/93 \$125,824	POMRENKE 93-NE-449	
DEFORMABLE GRATING LIGHT VALVES FOR HIGH RESOLUTION DISPLAYS				
Stanford University	Bloom	N 36 28/05/93 \$920,795	A SCHLOSSBER 93-NE-450	\$152,700 01/08/93 \$920,795
A STUDY OF EFFICIENT PLASMA SOURCES				
Univ of Tennessee	Radar	N 36 01/06/93 \$594,503	BARKER 93-NE-451	

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DENSE 3-D INTEGRATED ELECTRONIC/PHOTONIC COMPUTING STRUCTURES ENABLED BY DIFFRACTIVE OPTICAL ELEMENTS Univ of Southern California	Fangway, Jr	N 36 02/06/93 \$1,348,455	A CRAIG 93-NE-452	\$150,000 15/09/93 \$1,150,000
SELF-FIELD-DOMINATED PLASMA				
Stevens Institute of Technology	Nardi	N 36 02/06/93 \$827,853	BARKER 93-NE-453	
MICROELECTROMECHANICAL PHOTONIC SWITCHES				
Texas Instruments Inc	Collins	N 36 03/06/93 \$2,593,003	A SCHLOSSBER 93-NE-454	\$236,154 01/09/93 \$1,474,810
RESEARCH ON THE PHYSICS OF ULTRA-HIGH BRIGHTNESS, ULTRA-RELATIVISTIC ELECTRON BEAMS Duke University	Madey	N 36 04/06/93 \$1,500,000	A SCHLOSSBER 93-NE-455	\$50,000 01/09/93 \$1,500,000
LUMINESCENCE AND ELECTROLUMINESCENCE PROPERTIES OF NO, TM, YBER JUPED GAAS AND GAN Ohio University	Lozykowski	R 36 15/06/93 \$264,040	POMRENKE 93-NE-456	
IR3 - DEFECTS IN ADVANCED SEMICONDUCTORS: PHYSICS AND APPLICATIONS				
Materials Research Society	Dallance	N 12 15/06/93 \$12,804	POMRENKE 93-NE-457	
DEVELOPING MILLIMETER-WAVE HETEROJUNCTION BIPOLAR TRANSISTORS				
Northeast Consortium for Engineering Edu	Sayrakteroglu	N 36 15/06/93 \$609,011	MITT 93-NE-458	
STUDIES OF OPTICAL WAVE MIXING AND PHASE CONJUGATION				
Univ of California, Santa Barbara	Yen	R 36 16/06/93 \$360,000	A SCHLOSSBER 93-NE-459	\$115,000 01/10/93 \$360,000
EXPERIMENTAL INVESTIGATION OF OLIVER HEAVISIDE'S ELECTRODYNAMICS				
Powar Institute	Keeler	N 36 16/06/93 \$145,000	SMITH 93-NE-460	

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MULTIMWAVELENGTH INFORMATION PROCESSING-BASED LOGIC PRIMITIVES FOR COMPUTING AND INTERCONNECTS: PERFORMANCE AND REALIZABILITY Georgia Tech Research Corporation	Blumenthal	N 04 17/06/93 \$21,424	CRAIG 93-NE-461	
STUDIES OF OPTICAL BEAM PHASE-CONJUGATION & ELECTROMAGNETIC SCATTERING PROCESS Univ of Southern California	Hellwarth	N 36 17/06/93 \$813,092	SCHLOSSBER 93-NE-462	
HARDWARE IMPLEMENTATION OF TIME LENSES AND ULTRAFAST OPTICAL TEMPORAL PROCESSORS Quantex Corporation	Yang	N 06 22/06/93 \$49,990	A CRAIG 93-NE-463	\$49,990 01/09/93 \$49,990
A NOVEL OPTIC BISTABLE DEVICE WITH VERY LOW THRESHOLD-INTENSITY (MW/CM ²) USING PHOTOREFRACTIVE FILMS Imprime Corp. of America	Wang	N 06 28/06/93 \$50,000	A CRAIG 93-NE-464	\$50,000 15/09/93 \$50,000
FREE-FLIGHT PROBE FOR PLASMA DIAGNOSTICS Univ of Washington	Jarboe	N 36 28/06/93 \$486,484	BARKER 93-NE-465	
PARTICLE METHODS ON MASSIVELY PARALLEL COMPUTERS: APPLICATIONS TO SMOOTHED PARTICLE HYDRODYNAMICS (W-7405-JNG-36) Los Alamos Nat'l Lab--Appl Theor Phys Div	Miller	N 36 28/06/93 \$285,000	BARKER 93-NE-466	
TIME-DEPENDENT MULTICONFIGURATION THEORY OF OPTICAL SUSCEPTIBILITIES OF ATOMS AND MOLECULES State University of New York	Karna	N 36 28/06/93 \$332,134	KELLEY 93-NE-467	
RESONANT TUNNELING QUANTUM WELL INTEGRATED OPTICAL WAVEGUIDE MODULATOR/SWITCH Physical Optics Corporation	Shin	N 06 29/06/93 \$61,148	A CRAIG 93-NE-468	
THE LEOS 1993 TOPICAL MEETINGS SERIES Inst. of Electrical & Electronics Engrg	Jangemann	R 12 30/06/93 \$10,000	A SCHLOSSBER 93-NE-469	\$10,000 01/08/93 \$10,000

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JOINT HALF-LIFE ESTIMATION WITH ADJUSTMENT FOR COVARIATES AND HYPEROSCENASTICITY Armstrong Laboratory	Tripathi	N 12 14/04/93 \$97,006	A BOLAND 93-NI-020	\$31,557 01/06/93 \$97,006
SMALL BUSINESS INNOVATION RESEARCH PROGRAM				
Air Force Office of Scientific Research	JOLAND	N 6 16/04/93 \$15,000	A BOLAND 93-NI-021	\$844 16/04/93 \$15,000
RISK OF DECOMPRESSION SICKNESS WITH RAPID DECOMPRESSION TO HIGH ALTITUDES Armstrong Laboratory	Pilmanis	N 02 07/05/93 \$9,848	A BOLAND 93-NI-022	\$9,848 02/06/93 \$9,848
LAYERED PLASMA INSTABILITIES AND TURBULENCE IN THE TERRESTRIAL IONOSPHERE Phillips Lab - Geophysics Directorate	Jasperse	N 04 14/05/93 \$28,800	A BOLAND 93-NI-023	\$28,800 27/06/93 \$28,800
INTERFACE PROPERTIES OF MICRO- AND MACROCOMPOSITES OF NICALONTM/SIC Bright Lab	Kerans	N 05 14/05/93 \$24,436	A BOLAND 93-NI-024	\$24,436 23/06/93 \$24,436
A NEW APPROACH TO THE ANALYSIS OF BIOMEDICAL DATA Univ of Maine	Gupta	N 03 17/05/93 \$35,705	A BOLAND 93-NI-025	\$21,856 01/06/93 \$35,705
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Northeast Consortium for Engineering Edu	Everett Jr	N 24 07/06/93 \$2,626,694	A CAVENDER 93-NI-026	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Univ of Dayton	Shaw	N 4 07/06/93 \$2,442,059	A CAVENDER 93-NI-027	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Massachusetts Institute of Technology	Samuels	N 24 07/06/93 \$1,856,766	A CAVENDER 93-NI-028	

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UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Vanderbilt University	Kasamura Kazuniko	N 24 07/06/93 \$2,214,336	A CAVENDER 93-NI-029	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Japan-America Institute of Management Sc	Gross Larry	N 24 07/06/93 \$2,976,692	A CAVENDER 93-NI-030	
ASTRONOMY-ORIENTED SCIENCE CENTER Air Force Office of Scientific Research		N 11 08/06/93 \$5,800,000	A RHOADS 93-NI-031	\$5,800,000 01/11/93 \$5,800,000
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Univ of Wisconsin	Chapman Thomas	N 24 08/06/93 \$2,030,667	A CAVENDER 93-NI-032	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Univ of Utah	Dubow Joel	N 24 08/06/93 \$2,689,107	A CAVENDER 93-NI-033	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Univ of California, San Diego	Gourevitch Peter	N 24 08/06/93 \$2,787,165	A CAVENDER 93-NI-034	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Univ of Michigan	Campbell John	N 24 08/06/93 \$1,339,394	A CAVENDER 93-NI-035	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING North Carolina State University	Sylvester Jr John	N 24 08/06/93 \$1,301,740	A CAVENDER 93-NI-036	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Purdue Research Foundation	Plante Robert	N 24 08/06/93 \$1,431,566	A CAVENDER 93-NI-037	

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UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Case Western Reserve University	Witt Michael	N 24 08/06/93 \$3,621,989	A CAVENDER 93-NI-038	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Brigham Young University	Terry Ronald	N 24 08/06/93 \$2,523,593	A CAVENDER 93-NI-039	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Michigan Technological University	Munson Terry	N 24 08/06/93 \$2,000,749	A CAVENDER 93-NI-040	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Univ of California, Los Angeles	de la Torre Jose	N 24 08/06/93 \$3,379,513	A CAVENDER 93-NI-041	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Univ of Maryland	Frey Jeffrey	N 24 09/06/93 \$3,000,000	A CAVENDER 93-NI-042	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING University City Science Center	Padulo Louis	N 24 09/06/93 \$2,733,100	A CAVENDER 93-NI-043	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING Univ of Washington	Futsui Michio	N 24 09/06/93 \$1,523,321	A CAVENDER 93-NI-044	

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MOLECULAR-GENETIC TECHNIQUES TO IDENTIFY MICROORGANISMS AND ECOLOGICAL NICHES ABLE TO EFFECT BIOREMEDIATION OF HAZ MATERIALS Univ of Minnesota	Daryl Dwyer	N 36 02/04/93 \$343,894	KOZUMBO 93-NL-190	
SINGLE-DOPPLER RADAR RETRIEVAL OF WINDS FOR STORM PREDICTION AND H AZARD WARNING Univ of Oklahoma	Jim Lu	N 36 02/04/93 \$376,479	STOBIE 93-NL-191	
MILITARY FAMILY INSTITUTE Marywood College	Matthews Patricia	N 63 06/04/93 \$994,404	A BERRY 93-NL-192	\$0 15/09/93 \$0
THE EFFECTS OF THREE HYDROCARBONS ON THE HISTOLOGIC STRUCTURE OF H ALE RAT KIDNEYS Univ of Illinois	Thomas Eurell	R 12 15/04/93 \$59,146	A KOZUMBO 93-NL-193	\$24,985 01/07/93 \$24,985
RETRIEVAL PROCESSES IN MEMORY Northwestern University	Ratcliff Roger	N 36 15/04/93 \$481,984	TANGNEY 93-NL-194	
INTERACTION OF REGIONAL AND TELESEISMIC WAVES WITH 3-D EARTH STRUC TURE Australian National University	Kennett B.L.N.	N 36 21/04/93 \$419,267	DICKINSON 93-NL-195	
ANALYSIS OF SEISMIC SIGNALS FROM BASIC FRACTURE MODES ASSOCIATED WITH EARTHQUAKES AND UNDERGROUND EXPLOSIONS Univ of Pittsburgh	Vallejo Luis	N 24 21/04/93 \$319,673	D DICKINSON 93-NL-196	
CALIBRATION OF REGIONAL WAVE DISCRIMINANTS IN DIVERSE GEOLOGICAL E NVIRONMENTS: TOPOGRAPHIC CORRELATIONS Univ of California, Santa Cruz	Lay Thorne	N 24 23/04/93 \$145,718	DICKINSON 93-NL-197	
EXPERIMENTS IN AUTOMATIC EVENT DETECTION AND LOCATION USING GLOBAL SEISMIC NETWORKS Univ of California, San Diego	Shearer Peter	N 36 23/04/93 \$238,677	D DICKINSON 93-NL-198	

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HYDROACOUSTIC ARRAYS FOR SEISMIC DETECTION, LOCATION, & DISCRIMINATION: A COMPARISON WITH LAND-BASED SEISMIC ARRAYS AND NETWORKS Univ of California, San Diego	Orcutt	N 36 23/04/93 \$222,314	DICKINSON 93-NL-199	
REGIONAL VELOCITY MODEL IN THE NEIGHBOURHOOD OF GERSSE MASARYK University	Dvorak	N 36 23/04/93 \$181,400	DICKINSON 93-NL-200	
VERIFICATION STUDIES WITH BROAD BAND DATA Univ of California, Berkeley	Johnson	N 36 23/04/93 \$353,665	DICKINSON 93-NL-201	
DETECTION THRESHOLDS IN REGIONS OF LATHEALLY VARYING Q WITH APPLICATION TO EURASIA St. Louis University	Mitchell	N 24 23/04/93 \$134,838	DICKINSON 93-NL-202	
LG EXCITATION, ATTENUATION AND SOURCE SPECTRAL SCALING IN CENTRAL ASIA AND CHINA St. Louis University	Xie	N 24 23/04/93 \$153,584	DICKINSON 93-NL-203	
QUANTITATIVE CHARACTERIZATION OF CRUSTAL HETEROGENEITY: IMPLICATIONS FOR SEISMIC WAVE PROPAGATION Rice University	Levander	N 36 23/04/93 \$478,733	DICKINSON 93-NL-204	
A PROPOSAL FOR RESEARCH ON DIRECT AND INVERSE PROBLEMS FOR WAVE PROPAGATION IN RANDOM MEDIA Stanford University	Papanicolaou	N 36 23/04/93 \$557,833	D DICKINSON 93-NL-205	
WAVE PROPAGATION EXPERIMENTS TO MEASURE NONLINEAR ROCK RESPONSE Mission Research Corp	Felice	N 36 23/04/93 \$416,386	D DICKINSON 93-NL-206	
REGIONAL VARIATION OF LITHOSPHERIC AND UPPER MANTLE STRUCTURE IN AROUND THE KOREAN PENINSULA Univ of Illinois	Chen	N 24 26/04/93 \$246,488	DICKINSON 93-NL-207	

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DUAL FIELD SOURCE-MEDIUM SEPARATION AND DETERMINATION Tel-Aviv University	Loewenthal Jan	N 36 26/04/93 \$161,600	D DICKINSON 93-NL-208	
ANALYSES OF BROADBAND DATA COLLECTED FROM THE HIMALAYAN FRONT EXPERIMENT Vee Mexico State University	Ni James	N 24 26/04/93 \$98,960	D DICKINSON 93-NL-209	
A CASE STUDY OF LG-WAVE DISCRIMINANTS ACROSS A MAJOR BATHOLITH: DATA AND MODELS FROM THE SOUTHERN SIERRAS PROJECT AND CKE Duke University	Malin Peter	N 24 26/04/93 \$130,509	D DICKINSON 93-NL-210	
SEISMIC WAVE PROPAGATION IN SOUTHERN AND CENTRAL AFRICA Pennsylvania State University	Langston Charles	N 24 26/04/93 \$153,077	DICKINSON 93-NL-211	
FUNDAMENTAL INVESTIGATION OF LG ATTENUATION AND BLOCKAGE IN MODELS IN THE EURASIAN CRUST Univ of Connecticut	Cornier Vernon	N 24 26/04/93 \$103,976	DICKINSON 93-NL-212	
DEVELOPMENT OF REGIONAL DISCRIMINANTS IN TECTONICALLY ACTIVE REGIONS IN CENTRAL ASIA Woodward Clyde Consultants	Hoods Bradley	N 24 26/04/93 \$294,364	DICKINSON 93-NL-213	
REGIONAL STRUCTURE FROM BROADBAND BODY AND SURFACE WAVES Univ of California, Berkeley	Romanowicz Barbara	N 24 26/04/93 \$247,572	D DICKINSON 93-NL-214	
DISCRIMINATION AT REGIONAL DISTANCES: SEISMIC CHARACTERIZATION OF SOUTH AMERICA AND KOREA Univ of Arizona	Wallace Terry	N 24 26/04/93 \$142,965	DICKINSON 93-NL-215	
AN EVALUATION OF SEISMIC ARRAY CAPABILITIES USING MODERN 3-COMPONENT BROADBAND INSTRUMENTATION Univ of California, San Diego	Vernon Frank	N 36 26/04/93 \$256,131	D DICKINSON 93-NL-216	

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A COMPREHENSIVE INVESTIGATION OF NON-DOUBLE-COUPLE EARTHQUAKE SOURCES CES Univ of Texas	Fronlich Clifford	N 36 27/04/93 \$211,046	D DICKINSON 93-NL-217	
A TOMOGRAPHIC METHOD FOR STUDYING SOURCE AND RECORDING SITE P-WAVE ANISOTROPY WITH APPLICATIONS TO THE FORMER SOVIET UNION Duke University	Malin Peter	N 24 27/04/93 \$99,766	D DICKINSON 93-NL-218	
ANALYSIS OF SOVIET OSS RECORDS FOR PROPAGATION & MODELING OF LG 3L JACKAGE ACROSS MAJOR CRUSTAL FEATURES Univ of Wyoming	Smithson Scott	N 24 27/04/93 \$215,120	DICKINSON 93-NL-219	
PREDICTION OF ATMOSPHERIC & IONOSPHERIC DISTURBANCES DUE TO NEAR SURFACE SEISMIC SOURCES FOR USE IN JOINT SEISMIC, ACOUSTIC &... Univ of Colorado	Archambeau Charles	N 24 27/04/93 \$297,759	D DICKINSON 93-NL-220	
BROADBAND SIGNAL ENHANCEMENT OF SEISMIC ARRAY DATA: APPLICATION TO LONG-PERIOD SURFACE WAVES AND HIGH-FREQUENCY WAVEFIELDS Univ of California, San Diego	Vernon Frank	N 36 27/04/93 \$507,908	DICKINSON 93-NL-221	
MODES, RAYS, AND SCATTERING: A BASIC STUDY OF SEISMIC WAVE PROPAGATION AT REGIONAL DISTANCES Princeton University	Molet Augustinus	N 36 27/04/93 \$357,539	DICKINSON 93-NL-222	
A REGIONAL GEOPHYSICAL STUDY OF SOUTHEAST SIBERIA Univ of Wisconsin	Meyer Robert	N 36 27/04/93 \$414,388	D DICKINSON 93-NL-223	
THE UPPER MANTLE SEISMIC VELOCITY AND ATTENUATION STRUCTURES OF THE ARABIAN PLATE ENSCO Inc	Ghalib Hafidh	N 24 27/04/93 \$303,496	D DICKINSON 93-NL-224	
THE APPLICATION OF BROADBAND ARRAYS AND NETWORKS TO SEISMIC MONITORING OF UNCALIBRATED REGIONS Univ of South Carolina	Owens Thomas	N 36 27/04/93 \$300,056	DICKINSON 93-NL-225	

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THREE COMPONENT AUTOREGRESSIVE SIGNAL DETECTOR AND INSET TIME ESTIMATOR ENSCO INC	Ghalib	N 24 27/04/93 \$256,626	D DICKINSON 93-NL-226	
SYNTHETIC SEISMOGRAMS IN HETEROGENEOUS ELASTIC MEDIA AND THE STUDY OF FORMATION AND PROPAGATION OF REGIONAL PHASES IN EURASIA Univ of California, Santa Cruz	du	N 24 27/04/93 \$170,202	DICKINSON 93-NL-227	
APPLY MUSIC ALGORITHM TO SEISMIC ARRAY DATA Teledyne Geotech	Davis	N 24 27/04/93 \$187,323	D DICKINSON 93-NL-228	
CHARACTERISTICS OF THE ARABIAN PLATE CRUSTAL SEISMIC STRUCTURE ENSCO INC	Ghalib	N 24 27/04/93 \$349,318	DICKINSON 93-NL-229	
SEISMIC SIGNAL EXTRACTION USING AUTOREGRESSIVE ANALYSIS ENSCO INC	Ghalib	N 24 27/04/93 \$250,120	D DICKINSON 93-NL-230	
IMPROVED LOCATION, GREEN'S FUNCTIONS, AND SOURCE DISCRIMINATION FOR REGIONAL EVENTS IN KOREA AND IRAN Pennsylvania State University	Alexander	N 24 27/04/93 \$183,141	DICKINSON 93-NL-231	
EURASIAN SURFACE WAVE PHENOMENOLOGY AND INVERSION FOR CRUSTAL AND UPPER MANTLE STRUCTURES Univ of Colorado	Lewshin	N 36 27/04/93 \$298,427	DICKINSON 93-NL-232	
UNDERSTANDING THE SEISMIC MECHANISM AND CONTROLLABILITY OF ROCKBUR ST EVENTS Lawwell Laboratories	Bennett	N 24 27/04/93 \$325,000	DICKINSON 93-NL-233	
WAVE SCATTERING AND CRUSTAL STRUCTURE Univ of Nevada	Anderson	N 24 27/04/93 \$185,953	DICKINSON 93-NL-234	

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VARIATIONS IN CRUSTAL AND UPPER MANTLE STRUCTURE BENEATH DIVERSE G EOLOGIC PROVINCES IN ASIA AND AFRICA AND ITS EFFECTS ON REGIONAL... Univ of California, Santa Cruz	Schwartz Susan	N 24 27/04/93 \$116,166	DICKINSON 93-NL-235	
THEORETICAL AND OBSERVATIONAL STUDIES OF REGIONAL PHASE PROPAGATION Teledyne Geotech	Jin Jong-Song	N 36 27/04/93 \$285,127	DICKINSON 93-NL-236	
ANALYSIS OF KOREAN ARRAY DATA Science Applications International Corp	Steele-Henson Anne	N 12 27/04/93 \$114,460	DICKINSON 93-NL-237	
BASIC RESEARCH INVOLVING THREE PROBLEMS IN NUCLEAR MONITORING ENSCO Inc	Jer Zoltan	N 24 27/04/93 \$319,157	0 DICKINSON 93-NL-238	
HIGH FREQUENCY 3-COMPOUND WAVEFORM INVERSION FOR SOURCE AND STRUCTURAL PARAMETERS Univ of Colorado	Harvey Danny	N 36 27/04/93 \$358,637	DICKINSON 93-NL-239	
SURFACE WAVE PROPAGATION IN SOUTHWESTERN ASIA Univ of California, Santa Cruz	Ammon Charles	N 24 27/04/93 \$64,707	DICKINSON 93-NL-240	
AN EVALUATION OF SEISMIC ARRAY CAPABILITIES USING MODERN 3-COMPONENT BROADBAND INSTRUMENTATION Univ of Colorado	Harvey Danny	N 36 27/04/93 \$214,813	0 DICKINSON 93-NL-241	
A THEORETICAL INVESTIGATION OF THE BODY-WAVE MAGNITUDE MB Northwestern University	Okal Emile	N 24 27/04/93 \$105,618	D DICKINSON 93-NL-242	
ANALYSIS OF DIGITAL TELESEISMIC ARRAY DATA COLLECTED IN SOUTH CENT RAL SIBERIA AND NORTHERN MONGOLIA Univ of California, Los Angeles	Davis Paul	N 24 23/04/93 \$160,974	DICKINSON 93-NL-243	

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THE EFFECTS OF ANISOTROPY ON REGIONAL SEISMIC WAVE PROPAGATION Yale University	Park Jeffrey	N 24 28/04/93 \$124,155	DICKINSON 93-NL-244	
INFLUENCE OF LATERAL INHOMOGENEITIES IN THE CRUST AND UPPER MANTLE ON SEISMIC WAVE PROPAGATION Univ of California, Los Angeles	Davis Paul	N 24 28/04/93 \$231,970	D DICKINSON 93-NL-245	
SPHERICAL WAVE EXPERIMENTS IN SUPPORT OF BASIC RESEARCH IN SEISMOL OGY SRI International	Jefken Paul	N 36 28/04/93 \$454,524	DICKINSON 93-NL-246	
IMPLEMENTATION & APPLICATION OF 3D-NUMERICAL & ANALYTICAL (MODAL) METHODS FOR THE PREDICTION & ANALYSIS OF DISCRIMINATORY SEISMIC... Univ of Colorado	Archambeau Charles	N 24 28/04/93 \$296,629	DICKINSON 93-NL-247	
STUDY OF SEISMIC SOURCES IN CHINA AND KOREA Columbia University	Richards Paul	N 24 28/04/93 \$405,414	DICKINSON 93-NL-248	
EFFECT OF 3D HETEROGENEITIES AND TOPOGRAPHY ON SEISMIC WAVE PROPAGA TION AND THE USE OF EMPIRICAL GREEN'S FUNCTIONS FOR SOURCE CHARAC. Massachusetts Institute of Technology	Toksoz M. Nafi	N 24 28/04/93 \$272,510	DICKINSON 93-NL-249	
SEISMIC SOURCES AND STRUCTURE IN IRAN FROM JOINT SEISMIC Columbia University	Kia Don-Young	N 24 28/04/93 \$317,220	DICKINSON 93-NL-250	
INVESTIGATION OF CHARACTERISTICS OF SEISMIC WAVES FROM THE MAY 21, 1992 LOP NOR NUCLEAR EXPLOSION USING IRIS BROADBAND DATA Univ of California, Santa Cruz	Zhang Jiajun	N 24 28/04/93 \$101,541	DICKINSON 93-NL-251	
KNOWING THE DEPTH OF A SHALLOW SEISMIC EVENT, HOW OFTEN CAN WE FIND DEPTH PHASES AT REGIONAL DISTANCES Boise State University	Zollweg James	N 36 28/04/93 \$149,565	DICKINSON 93-NL-252	

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HEARFIELD WAVE PROPAGATION THROUGH AN ENDOCHRONIC SOLID Univ of California, San Diego	Minster J. Bernard	N 30 23/04/93 \$301,459	DICKINSON 93-NL-253	
A COMPLETE MODELING OF SOURCE RCP'S OF PNE'S IN GIS AND DISCRIMINANTS FOR LOW-YIELD EVENTS Goodward Clyde Consultants	Chalkia Chandan	N 24 28/04/93 \$423,730	DICKINSON 93-NL-254	
HIGHER-ORDER ART, S* AND PSEUDO SHEAR WAVES Epoch Technologies International	Chun Kin-Yip	N 24 29/04/93 \$155,903	DICKINSON 93-NL-255	
DEVELOPMENT OF COMPLEX PHASE-RAY METHOD FOR SEISMIC MODELING Epoch Technologies International	Chun Kin-Yip	N 24 28/04/93 \$163,053	DICKINSON 93-NL-256	
INTEGRATED INVERSION TECHNIQUES FOR SEISMIC VELOCITY, ANISOTROPY & ATTENUATION STRUCTURE Univ of Illinois	Clarke Timothy	N 24 28/04/93 \$93,044	DICKINSON 93-NL-257	
AN ANALYSIS OF COUPLING AND ITS INFLUENCE ON REGIONAL SEISMIC WAVE CHARACTERISTICS JTD Inc.	Foster Eugene	N 30 28/04/93 \$306,531	DICKINSON 93-NL-258	
ADVANCED SIGNAL MODELING AND PROCESSING OF REGIONAL SEISMIC DATA Radix Systems, Inc.	Pull Jay	N 36 28/04/93 \$682,852	DICKINSON 93-NL-259	
REGIONAL DISCRIMINANT FOR EARTHQUAKES HAVING EXPLOSION-LIKE WAVES IN SAN JUAN PROVINCE ARGENTINA Goodward Clyde Consultants	Somerville Paul	N 24 28/04/93 \$165,161	DICKINSON 93-NL-260	
CRUSTAL/UPPER MANTLE STRUCTURE OF THE PARENTS SHELF WEST OF NOVAYA ZEMELVA: DIGITIZING & ANALYSIS OF USS PROFILES OF THE.... Cornell University	Hausner Ernest	N 24 28/04/93 \$145,961	DICKINSON 93-NL-261	

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EARTHQUAKE/EXPLOSION DISCRIMINATION USING A MAXIMUM LIKELIHOOD ANALYSIS OF SURFACE WAVES RECORDED ON REGIONAL AND GLOBAL NETWORKS Maxwell Laboratories	Stevens Jeffrey	N 24 28/04/93 \$299,990	DICKINSON 93-NL-262	
NUMERICAL MODELING OF QUARRY BLASTS: DISCRIMINATION OF QUARRY BLASTS FROM EARTHQUAKES AND NUCLEAR EXPLOSIONS Maxwell Laboratories	Barker Terrance	N 24 28/04/93 \$299,977	DICKINSON 93-NL-263	
BROADBAND SIGNAL ENHANCEMENT OF SEISMIC ARRAY DATA: APPLICATION TO LONG-PERIOD SURFACE WAVES AND HIGH-FREQUENCY WAVEFIELDS Univ of Indiana	Pavlis Gary	N 36 28/04/93 \$491,163	DICKINSON 93-NL-264	
DETERMINATION OF SEISMIC 3-D SCATTERING EFFECTS ON BACKAZIMUTH ESTIMATES AND WAVEFORM COMPLEXITY AT IRIS STATIONS Mission Research Corp	Fisk Mark	N 36 28/04/93 \$375,016	DICKINSON 93-NL-265	
THE USE AND CONSTRUCTION OF 3D STRUCTURAL MODELS TO IMPROVE SOURCE CHARACTERIZATION Univ of Colorado	Ritzwoller Michael	N 36 28/04/93 \$372,372	DICKINSON 93-NL-266	
FUNDAMENTAL STUDIES OF ELASTIC WAVE POLARIZATION Columbia University	Meneke William	N 36 29/04/93 \$286,113	DICKINSON 93-NL-267	
NON-LINEAR RHEOLOGY OF ROCK AT MODERATE STRAINS & ITS IMPORTANCE TO DISCRIMINATION, DETECTION & YIELD ESTIMATION OF UNDERGROUND New England Research Inc.	Soltnott Greg	N 36 29/04/93 \$278,607	DICKINSON 93-NL-268	
3D FINITE DIFFERENCE SEISMIC MODELING WITH RECURSIVE GRID REFINEMENT Maxwell Laboratories	McLaughlin Keith	N 24 29/04/93 \$299,989	DICKINSON 93-NL-269	
2D & 3D MODELLING OF SEISMIC WAVE PROPAGATION IN THE HETEROGENEOUS LITHOSPHERE IN THE CONTEXT OF NUCLEAR TEST BAN MONITORING Jorgen University	Husebye Eystein	N 36 29/04/93 \$394,505	DICKINSON 93-NL-270	

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SITE EFFECTS ON REGIONAL SIGNALS AT THE WESTON SEISMIC ARRAY FROM MODEL-BASED ANALYSIS OF MULTICHANNEL SEISMOGRAMS Analytic Sciences Corporation	Robert Gomer	N 24 30/04/93 \$315,689	DICKINSON 93-ML-271	
OBSERVED AND ANALYTICAL CHARACTERISTICS OF MONSOON CONVECTIVE BAND J St. Louis University	Rao G	N 24 06/05/93 \$77,845	STOBIE 93-ML-272	
THE PHYSICAL ORIGIN OF IN-CLOUD LIGHTNING PROCESSES DETERMINED FROM A MULTIPLE-STATION WIDEBAND ELECTRIC FIELD MEASUREMENTS Univ of Florida	Ewen Thomson	N 36 11/05/93 \$350,484	STOBIE 93-ML-273	
DEPSCOR92 - APPARATUS FOR NEUROPHYSIOLOGY AND NONLINEAR DYNAMICS EXPERIMENTS Univ of Missouri	Moss Frank	N 12 11/05/93 \$217,627	HADDAD 93-ML-274	
DEPSCOR92 - ELECTRONIC LIGHT MICROSCOPY FACILITY: CONFOCAL AND VIDEO MICROSCOPY INSTRUMENTATION Univ of North Dakota	Olson Mark	N 12 11/05/93 \$294,754	HADDAD 93-ML-275	\$124,200 01/10/93 \$124,200
DEPSCOR92 - WIDE FIELD SPECTRAL IMAGER Univ of Louisville	Kielkopf John	N 12 11/05/93 \$124,200	A RADOSKI 93-ML-276	
DEPSCOR92 - VERMONT FACILITY FOR STRUCTURAL BIOLOGY Univ of Vermont	Wallace Susan	N 12 11/05/93 \$1,000,000	HADDAD 93-ML-277	
DEPSCOR92 - INSTRUMENTATION IN SUPPORT OF SPACE-RELATED EXPERIMENTS West Virginia University	Koepeke Mark	N 12 11/05/93 \$112,618	RADOSKI 93-ML-278	
DEPSCOR92 A PROPOSAL FOR EQUIPMENT TO BEGIN IMPLEMENTATION OF THE NORTHERN HIGH PLAINS MESOSCALE RESEARCH NETWORK S.O. School of Mines & Technology	Helsdon John	N 12 11/05/93 \$500,000	STOBIE 93-ML-279	

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DEPCOR92 - MORPHOLOGICAL STUDIES OF LEG SENSE ORGANS THAT ADAPT WALKING PATTERNS Marshall University	Zill Sasha	N 12 11/05/93 \$80,817	COLLINS 93-NL-280	
DEPCOR92 MEASUREMENT EQUIPMENT FOR LIGHT EXTINCTION AND MESOSCAL E MODELING STUDIES Desert Research Institute	Lowenthal Douglas	N 12 11/05/93 \$290,105	STOBIE 93-NL-281	
DEPCOR92 - SCALABLE PARALLEL COMPUTER SYSTEM Univ of Oklahoma	Gel-Chen Tzyi	N 12 11/05/93 \$386,835	STOBIE 93-NL-282	
DEPCOR92 - PROPOSAL FOR INSTRUMENTATION TO QUANTIFY TURBULENCE EFFECTS ON OUTDOOR SOUND PROPAGATION Univ of Mississippi	Raspet Richard	N 12 11/05/93 \$67,980	STOBIE 93-NL-283	
DEPCOR92 A PROPOSAL TO ACQUIRE A 915 MHZ DOPPLER/INTERFEROMETER R ADAR SYSTEM FOR STUDIES OF WINDS, WAVES, TURBULENCE, & PRECIPITA.. Clemson University	Larsen Miguel	N 12 11/05/93 \$157,200	A STOBIE 93-NL-284	\$157,200 15/09/93 \$157,200
DEPCOR-92 - PROPOSED EQUIPMENT UPGRADE TO SUPPORT THE EXTENSION OF VISUAL PSYCHOPHYSICAL RESEARCH OF LATERAL SUPRATHRESHOLD... North Dakota State University	McCourt Mark	N 12 11/05/93 \$38,537	TANGNEY 93-NL-285	
DEPCOR92 INSTRUMENTATION UPGRADE FOR ARMORED T-28 METEOROLOGICAL RESEARCH AIRCRAFT S.D. School Of Mines & Technology	Smith P. W.	N 12 11/05/93 \$52,663	STOBIE 93-NL-286	
DEPCOR92 - RELIABILITY OPTIMIZATION OF VISUAL TRACKING SYSTEMS Univ of Wyoming	McInroy John	N 12 11/05/93 \$170,374	TANGNEY 93-NL-287	
DEPCOR92 A REQUEST FOR INSTRUMENTATION TO ALLOW MULTIDISCIPLINARY ASSESSMENTS OF THE EFFECTS OF HYPOXIA ON HUMAN COGNITIVE & SENSORY Univ of North Dakota	Petros Thomas	N 12 11/05/93 \$169,798	TANGNEY 93-NL-288	

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DEPSCOR92 - RESEARCH IN BUILDING DISTANCE LEARNING INFRASTRUCTURE FOR RETRAINING OOD PERSONNEL IN NEW SOFTWARE PROCESSES Larsenall University	Lodghar	N 12 11/05/93 \$237,846	TANGNEY 93-NL-289	
DEPSCOR92 TIGHTLY COUPLED INTELLIGENT TASK AUTOMATION	ebeling	N 12 11/05/93 \$89,792	TANGNEY 93-NL-290	
DEPSCOR92 - INSTRUMENTATION FOR COMPETITIVE RESEARCH IN ACOUSTICS AND ELECTROMAGNETICS Univ of Mississippi	Jass	N 12 11/05/93 \$115,889	STOBIE 93-NL-291	
DEPSCOR92 COMPUTATIONAL MODELLING OF EQUILUMINANT VISION	Zimmerman	N 12 11/05/93 \$696,000	A TANGNEY 93-NL-292	\$69,600 30/09/93 \$69,600
DEPSCOR92 - ACQUISITION OF A GLOBALLY ACCESSIBLE BROADBAND ARRAY FOR SEISMIC MONITORING RESEARCH Univ of South Carolina	Owens	N 12 11/05/93 \$665,871	DICKINSON 93-NL-293	
DEPSCOR92 ANTIBACTERIAL EFFECTIVENESS OF ULTRA HIGH HYDROSTATIC PR -SSURE AND PULSE ELECTRIC FIELD IN COMBINATION WITH BACTERIOICINS.. Univ of Wyoming	Ray	N 12 11/05/93 \$192,000	HADDAD 93-NL-294	
DEPSCOR92 ACQUISITION OF A MODERN MASS SPECTROMETER FOR BIODETECTI ON RESEARCH Univ of South Carolina	Fox	N 12 11/05/93 \$140,744	HADDAD 93-NL-295	
DEPSCOR92 OPTICAL MICROSCOPE OF HIGH RESOLUTION	Vodanoy	N 12 11/05/93 \$77,895	HADDAD 93-NL-296	
DEPSCOR92 ATOMIC FORCE MICROSCOPY FOR BIOFILM STUDIES	Avci	N 12 12/05/93 \$60,750	HADDAD 93-NL-297	

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JEPSC0892 PURCHASE OF AN ATR/FT-IR SPECTROMETER FACILITY Montana State University	Bryers James	N 12 12/05/93 \$80,000	HADDAD 93-NL-298	
JEPSC0892 A REGIONAL CRUSTAL PHASE OBSERVATORY Iowa State University	Collaeg James	N 12 12/05/93 \$135,200	A DICKINSON 93-NL-299	\$135,200 30/09/93 \$135,200
JEPSC0892 A MODEL INSTITUTE NETWORK UTILIZING SENSOR SYSTEMS INTER- FACE FOR GEOBIOPHYSICAL MODELING FOR EVALUATION OF GEOGRAPHIC ... Marshall University	Brumfield James	N 12 12/05/93 \$348,670	DICKINSON 93-NL-300	
JEPSC0892 ENHANCEMENT OF GEOSCIENCE RESEARCH PROGRAM IN THE WESTER U.S. Univ of New Orleans	Sarpa Laura	N 12 12/05/93 \$143,731	DICKINSON 93-NL-301	
PROCESSING DARPA ARRAY SP DATA TO EXTRACT LP SIGNALS FOR CIBY/NUCL EAR PROLIFERATION MONITORING Univ of Oklahoma	Lawson, Jr. James	N 24 12/05/93 \$88,299	DICKINSON 93-NL-302	
JEPSC0892 DEEP BROADBAND SEISMIC NUCLEAR PROLIFERATION MONITORING RESEARCH ADDITION TO THE ARPA/NMRO FUNDED TULSA OPEN STATION Univ of Oklahoma	Lawson, Jr. James	N 12 12/05/93 \$139,652	DICKINSON 93-NL-303	
JEPSC0892 - DEVELOPMENT OF A CELLULAR NEUROBIOLOGY IMAGING CENTER University of Puerto Rico	Lugo-Garcia Nidza	N 12 13/05/93 \$80,594	HADDAD 93-NL-304	
JEPSC0892 FLUORESCENT ACTIVATED CELL SORTER: AN INSTRUMENT TO SUPP ORT MOLECULAR BIOLOGY University of Idaho	Cloud Joseph	N 12 13/05/93 \$129,500	HADDAD 93-NL-305	
JEPSC0892 REQUEST FOR 3D DIGITIZATION SYSTEM JEPSCOR PROGRAM University of Southern Mississippi	Poss Stuart	N 12 13/05/93 \$65,000	HADDAD 93-NL-306	

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DEPSCOR92 REQUEST FOR A MICROPLATE SCINTILLATION SYSTEM Mississippi State University	Chambers Janice	N 12 14/05/93 \$61,585	A KOZUMBO 93-NL-307	\$61,585 30/09/93 \$61,585
DEPSCOR92 - RESEARCH EQUIPMENT SUPPORT FOR IMMUNOASSAY RESEARCH APPLICATIONS TO CONTAMINATED SEDIMENT TESTING Univ of Missouri	Hossain Deboran	N 12 14/05/93 \$58,025	KOZUMBO 93-NL-308	
DEPSCOR92 - IMMUNE PARAMETERS AS BIOMARKERS OF EXPOSURE TO ENVIRONMENTAL CONTAMINANTS Clemson University	Dickerson Richard	N 12 14/05/93 \$114,822	KOZUMBO 93-NL-309	
DEPSCOR92 A PROPOSAL FOR RESEARCH LEVEL MASS SPECTROMETRY COMPONENTS Montana State University	van Kujik Frederik J.G.M.	N 12 14/05/93 \$132,300	KOZUMBO 93-NL-310	
32 JARPA ASERT - REGIONAL SEISMIC EVENT IDENTIFICATION AND IMPROVED LOCATIONS WITH SMALL ARRAYS Univ of California, San Diego	Minster Jean-Bernard	N 36 14/05/93 \$128,045	A DICKINSON 93-NL-311	\$128,045 01/06/93 \$128,045
VISUAL SURFACE REPRESENTATION, CONSTRAINTS IMPOSED BY SEGMENTATION Univ of California, San Diego	Ramachandran V.S.	N 36 14/05/93 \$391,971	TANGNEY 93-NL-312	
DEPSCOR92 - PROPOSAL TO PURCHASE ATOMIC ABSORPTION INSTRUMENTATION UNDER DEPSCOR Tulane Univ -- School of Medicine	Abdelghani Assaf	N 12 14/05/93 \$96,256	KOZUMBO 93-NL-313	
INDUCED PICTORIAL REPRESENTATIONS Stanford University	Iversky Barbara	R 36 14/05/93 \$423,727	TANGNEY 93-NL-314	
DEPSCOR92 ELECTRON PARAMAGNETIC RESONANCE SPECTROMETER Tulane Univ -- School of Medicine	Iarnofsky Carl	N 12 14/05/93 \$111,360	KOZUMBO 93-NL-315	

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DEPSCOR92 ENHANCEMENT OF MACROMOLECULAR NMR & MOLECULAR MODELING F ACILITIES Univ of Missouri	Smith George	N 12 14/05/93 \$112,644	KOZUM80 93-NL-316	
DEPSCOR92 - DEVELOPMENT OF A BINDING INTERFERENCE ASSAY & HIGH SENSITIVITY DETECTION OF PROTEINS BY CAPILLARY ELECTROPHORETIC Univ of Alabama	Deale Stephen	N 12 14/05/93 \$84,378	KOZUM80 93-NL-317	
DEPSCOR92 SHARED LIPOPROTEIN RESEARCH FACILITY Univ of Alabama	Anantharamaiah G	N 12 17/05/93 \$215,213	KOZUM80 93-NL-318	
DEPSCOR92 - PROTEIN VIBRATIONAL SPECTROSCOPY LABORATORY Kansas State University	Anderson Laura	N 12 17/05/93 \$297,023	KOZUM80 93-NL-319	
DEPSCOR92 DEVELOPMENT OF RESEARCH CAPABILITIES IN BIOLUMINESCENCE AT THE UNIV OF PUERTO RICO.--KINETICS & ENERGY-TRANSFER PHENOMENA. Univ of Puerto Rico	Souto Bachiller Fernando	N 12 17/05/93 \$181,036	KOZUM80 93-NL-320	
DEPSCOR92 - KINETIC IMAGE ANALYSIS EQUIPMENT CHEMOTAXIS, MARINE & ENVIRONMENTAL MICROBIOLOGY Montana State University	Cooksey Keith	N 12 17/05/93 \$65,250	KOZUM80 93-NL-321	
DEPSCOR92 - LC/MS ACQUISITION FOR MULTI-USER ANALYTICAL LABORATORY Clemson University	Riley Melissa	N 12 17/05/93 \$245,200	KOZUM80 93-NL-322	
DEPSCOR92 - MEMBRANE SUBSTRUCTURE AND COMPARTMENTATION IN ESCHERICHIA COIL Univ of North Dakota	Young Kevin	N 12 17/05/93 \$52,723	KOZUM80 93-NL-323	
COGNITION AND THE BRAIN New York University	Kaufman Lloyd	N 36 17/05/93 \$605,069	TANGMEY 93-NL-324	

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2 DARPA ASSET - METHODS IN PHYSICS-BASED COMPUTER VISION Johns Hopkins University	Wolff Lawrence	N 36 18/05/93 \$192,133	A COLLINS 93-NL-325	\$192,133 01/06/93 \$192,133
DEPCOR92 HYPONARIC PHYSIOLOGICAL RESEARCH Klahoma State University College of Ost	Martin Loren	N 12 19/05/93 \$190,918	COLLINS 93-NL-326	
WORKSHOP ON SELF-DETERMINATION IN DEVELOPING AND EVOLVING SYSTEMS Syabus Technology	Kuperstein Michael	N 12 19/05/93 \$26,650	TANGNEY 93-NL-327	
CONTEXT-SENSITIVE VISUAL PROCESSING: SEGMENTATION AND GROUPING, VI SUAL SEARCH, AND 3-D SURFACE PERCEPTION Boston University	Mingolla Ennio	N 36 25/05/93 \$637,073	TANGNEY 93-NL-328	
METALLIC IONS AND ATOMS IN THE UPPER ATMOSPHERE Univ of Colorado	Forbes Jeffrey	N 12 01/06/93 \$79,173	STOBIE 93-NL-329	
REMOTE SENSING OF INNER HELIOSPHERIC PLASMAS Univ of California, San Diego	Jackson Bernard	R 36 01/06/93 \$415,143	RADOSKI 93-NL-330	
COMPILATION OF THE DIELECTRIC PROPERTIES OF BODY TISSUES AT RF AND MICROWAVE FREQUENCIES King's College London	Gabriel Camelia	R 24 01/06/93 \$170,560	A KOZUMBO 93-NL-331	\$80,960 15/07/93 \$170,560
THEORETICAL INVESTIGATIONS OF THE GLOBAL ZONES OF PARTICLE PRECIPITATION Univ of Arkansas/Fine Bluff	Wish M.A.	N 36 01/06/93 \$610,024	KROLL 93-NL-332	
NONLINEAR OPTICAL INTERACTIONS OF ULTRA-SHORT PULSES IN MOLAR AND RELATED MEDIA Univ of Arizona	Moloney J.V.	N 24 01/06/93 \$99,999	KOZUMBO 93-NL-333	

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NUCLEAR TEST INDUCED SEISMICITY - A POTENTIAL DETECTION TOOL PLUS MORE Geological Survey/Dept of Interior	Gombers Joan	N 12 03/06/93 \$138,318	DICKINSON 93-NL-334	
CO-SOLVENT ENHANCED BIODEGRADATION OF WATER-INSOLUBLE HYDROPHOBIC COMPOUNDS Stevens Institute of Technology	Pal Nirupam	N 36 04/06/93 \$350,655	KOZUMBO 93-NL-335	
PLASTICITY IN ADAPTATION OF PERCEIVED VISUAL DIRECTOR Univ of California, Santa Cruz	Bridgeman Bruce	N 36 08/06/93 \$555,406	COLLINS 93-NL-336	
PROPOSAL TO DEVELOP AND TEST TECHNIQUES FOR FORECASTING ERUPTING F ILAMENTS, COZONAL MASS EJECTIONS, AND RELATED GEOMAGNETIC STORMS California Institute of Technology	Martin Sara	N 36 08/06/93 \$346,675	RADOSKI 93-NL-337	
ATTENTION AND PERFORMANCE XVI: INFORMATION INTEGRATION IN PERCEPTION AND ACTION Univ of Michigan	Kornblum Sylvan	N 24 09/06/93 \$21,667	TANGNEY 93-NL-338	
QUANTIFICATION OF REGIONAL WAVE PROPAGATION, LITHOSPHERIC & UPPER MANTLE STRUCTURE AND ATTENUATION IN EURASIA Geological Survey/Dept of Interior	Benzer Harley	N 24 09/06/93 \$174,056	DICKINSON 93-NL-339	
COMPREHENSIVE MODELING OF THE HUMAN PSYCHOPHYSICAL RESPONSES TO OR IDENTIFICATION STIMULI Jeda, Inc.	Colombo Joseph	N 26 21/06/93 \$337,282	COLLINS 93-NL-340	
CENTRAL POSTSYNAPTIC ACTIONS OF MONOAMINE NEUROTRANSMITTERS IN BEH AVING ANIMALS Princeton University	Jacobs Barry	R 36 24/06/93 \$501,422	HADDAD 93-NL-341	
A HUMAN VISUAL SYSTEM BASED FIDELITY MERIT FOR IMAGE SEQUENCES Univ of California, Berkeley	Klein Stanley	N 48 28/06/93 \$746,683	TANGNEY 93-NL-342	

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EMPIRICAL AND THEORETICAL STUDIES OF A NOVEL FORM OF HUMAN BINOCULAR
IR VISION
Vanderbilt University

INVESTIGATOR

Blake

Randolph

MODELING INDIVIDUAL DIFFERENCES IN PERFORMANCE USING A SPEED-ACCURACY
ACT METHODOLOGY
Univ of Iowa

Lohman

David

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N 24 23/06/93 \$148,034	TANGNEY 93-NL-343	
N 36 29/06/93 \$405,581	TANGNEY 93-NL-344	

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NEW CONCEPTS IN COMPUTER SIMULATION SURROGATES Massachusetts Institute of Technology	Patera Anthony	N 36 01/04/93 \$367,522	JACOBS 93-NM-287	
EFFICIENT LOAD BALANCE AND LOCALITY OF REFERENCE FOR UNSTRUCTURED GRID AND PARTICLE SIMULATIONS ON MASSIVELY PARALLEL PROCESSORS Fairward University	Jonsson S. Lennart	N 25 02/04/93 \$208,000	A JACOBS 93-NM-288	\$95,581 01/07/93 \$208,000
GENERATING A RADIAL BASIS FUNCTION NET IN POLYNOMIAL TIME FOR CLASSIFICATION Arizona State University	Roy Asia	N 12 06/04/93 \$62,327	SUDDARTH 93-NM-289	
SOURCE SEPARATION Univ of Maryland	Kedem Benjamin	N 36 06/04/93 \$291,871	D SJOGREN 93-NM-290	
SMALL-SAMPLE STATISTICAL CONDITION ESTIMATION Univ of California, Santa Barbara	Laub A.	N 36 06/04/93 \$449,003	A JACOBS 93-NM-291	
AN IMPROVED MODULAR REPRESENTATION FOR THE RESIDUE NUMBER SYSTEM Univ of Wyoming	Cowles John	N 12 06/04/93 \$53,810	D SJOGREN 93-NM-292	
ALGORITHMS FOR LARGE-SCALE NONLINEAR OPTIMIZATION Washington State University	Nazareth John	N 36 06/04/93 \$218,114	GLASSMAN 93-NM-293	
DYNAMIC COMMUNICATION JAMMING/INTERCEPT GAMES Univ of Southern California	PAPAVASSILOPOULOS GEORGE	N 24 06/04/93 \$132,522	SJOGREN 93-NM-294	
RAREFIED GAS DYNAMICS AND MONTE CARLO METHODS Univ of California, Los Angeles	Cafflisch Russell	N 36 07/04/93 \$261,480	NACHMAN 93-NM-295	

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ADVANCED AUTOMATIC TARGET RECOGNITION				
Univ of Maryland	ROSENFELD	N 36 07/04/93 \$948,682	A SJOGREN 93-NM-296	\$195,576 15/08/93 \$948,682
UNIFIED, MULTIREOLUTION FRAMEWORK FOR AUTOMATIC TARGET DETECTION AND RECOGNITION				
Massachusetts Institute of Technology	WILSKY	N 36 07/04/93 \$1,005,372	A SJOGREN 93-NM-297	\$224,328 15/08/93 \$1,005,872
ADAPTED WAVEFORM ANALYSIS FOR ATD/R				
Yale University	COIFMAN	N 36 07/04/93 \$1,500,003	A SJOGREN 93-NM-298	\$239,152 15/08/93 \$1,500,003
MULTICOVARIANCE METHODS FOR DEFLECTION OF LOW-RESOLUTION TARGETS IN SEVERE GROUND CLUTTER				
Yale University	COOPER	N 24 07/04/93 \$364,069	A SJOGREN 93-NM-299	\$89,186 15/08/93 \$364,069
WAVELET MULTISCALE ANALYSIS FOR RECOGNITION AND SOLUTION ALGORITHMS				
Yale University	WELLS JR	N 36 07/04/93 \$597,000	A SJOGREN 93-NM-300	\$98,978 15/08/93 \$595,504
AUTOMATIC TARGET DETECTION AND RECOGNITION				
Northeastern University	DEVANEY	N 42 07/04/93 \$910,461	A SJOGREN 93-NM-301	\$148,531 15/08/93 \$910,461
UNIVERSITY RESEARCH INITIATIVE INTO THE THEORY AND STRATEGIES FOR AUTOMATIC TARGET DETECTION AND RECOGNITION				
Univ of Colorado	BEYLKIN	N 36 07/04/93 \$449,337	A SJOGREN 93-NM-302	\$71,663 15/08/93 \$449,595
ROBUST MULTIREOLUTION INTEGRATED TARGET SENSING AND RECOGNITION				
Univ of Minnesota	TEMFIK	N 36 07/04/93 \$499,850	A SJOGREN 93-NM-303	\$88,316 15/08/93 \$499,850
(AASERT93) THEORETICAL & EXPERIMENTAL STUDIES OF REACTING COMPRESSIBLE FLOW				
Univ of Illinois		N 36 03/04/93 \$117,917	A NACHMAN 93-NM-304	\$117,917 01/09/93 \$117,917

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UNIFIED CONTROLLER DESIGN FOR INTELLIGENT MANUFACTURING AUTOMATION Integrated Systems, Inc.	Koust	N 36 15/04/93 \$1,644,419	A JACOBS 93-NM-305	\$247,216 01/07/93 \$1,644,419
COMBINATORIAL OPTIMIZATION FOR MOLECULAR SYSTEMS Purdue University	Pekny	N 36 20/04/93 \$667,504	GLASSMAN 93-NM-306	
FAULT-TOLERANCE IN DISTRIBUTED & MULTIPROCESSOR REAL-TIME SYSTEMS Texas Engineering Experiment Center	Pradhan	R 36 20/04/93 \$366,504	SUDDARTH 93-NM-307	
MAINTENANCE MODELS: A TAXONOMY AND PERFORMANCE EVALUATION Northeastern University	Deutsch	N 12 20/04/93 \$162,239	SJOGREN 93-NM-308	
MATHEMATICAL OPPORTUNITIES IN COMPUTATIONAL CHEMISTRY National Academy of Sciences	Lavery	N 18 20/04/93 \$189,500	GLASSMAN 93-NM-309	
INTELLIGENT CONTROL OF UNCERTAIN SYSTEMS Yale University	Morse	N 36 21/04/93 \$253,193	JACOBS 93-NM-310	
DIFFERENTIAL EQUATIONS IN CONTINUUM MECHANICS California Institute of Technology	Cohen	N 36 21/04/93 \$194,356	NACHMAN 93-NM-311	
RESEARCH ON FAULT-TOLERANT AND REAL-TIME DISTRIBUTED COMPUTING Cornell University	Schneider	N 13 21/04/93 \$410,315	SUDDARTH 93-NM-312	
WAVELETS SIGNAL PROCESSING & MATRIX COMPUTATION Air Force Institute of Technology	Suter	N 04 21/04/93 \$22,704	A SJOGREN 93-NM-313	\$22,704 01/04/93 \$22,704

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A DISTURBANCE ATTENUATION APPROACH TO MISSILE GUIDANCE AND CONTROL Univ of California, Los Angeles	Josyer Jason	N 36 21/04/93 \$249,288	JACOBS 93-NM-314	
MULTI SCALES STOCHASTIC PROCESSES ANALYZED USING MULTIFACTALS JAVELETS Cambridge University (Trumpington St)	CALARESE M	N 06 22/04/93 \$5,000	A NACHMAN 93-NM-315	\$5,000 14/03/93 \$5,000
(CURIP-FY93) EXPERIMENTALS AND THEORETICAL ASPECTS OF CORROSION JETECTION AND PREVENTION Univ of Connecticut	Madych Holodymyr	N 36 22/04/93 \$360,000	A NACHMAN 93-NM-316	\$120,000 01/08/93 \$360,000
IONLINEAR WAVE PROPAGATION Univ of Colorado	Ablovitz Mark	N 36 29/04/93 \$269,802	NACHMAN 93-NM-317	
DEVELOPMENT OF A MEASURE OF TEXTURE AND ITS APPLICATION TO IMAGE SEGMENTATION IN A REGION GROWING FRAMEWORK New Mexico State University	Mayorga Miguel	N 36 30/04/93 \$352,103	WAKSMAN 93-NM-318	
AULT-TOLERANT SORTING ALGORITHMS Univ of Alabama	Amin Ashok	N 36 30/04/93 \$116,752	SUDDARTH 93-NM-319	
A STOCHASTIC MODEL & SOLUTION ALGORITHM FOR OPTIMAL DISTRIBUTION OF RESOURCES IN CONGESTED LOGISTICS NETWORK Management Science Consultants of Americ	Pourbabai Bahnam	N 06 30/04/93 \$56,428	GLASSMAN 93-NM-320	
THE INSTITUTE FOR ADVANCED SCIENCE AND TECHNOLOGY AT THE UNIVERSITY OF PENNSYLVANIA Univ of Pennsylvania	Cooperman Barry	N 36 04/05/93 \$0	A HOLLAND 93-NM-321	\$0 30/09/93 \$0
FAST COMPUTATIONAL METHODS FOR DF AND INTERFERENCE REDUCTION Stanford University	Jolub Gene	N 36 12/05/93 \$147,176	A JACOBS 93-NM-322	\$147,176 01/09/93 \$147,176

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DEVELOPMENT OF USER-MATCHED/NETWORK-FRIENDLY TRAFFIC PROFILES FOR CONGESTION CONTROL IN HIGH SPEED FIBER OPTICS NETWORKS Univ of Vermont	Ioannis Stavroukakis	N 36 12/05/93 \$385,077	A GLASSMAN 93-NM-323	\$136,306 01/09/93 \$385,677
STOCHASTIC MODELS IN RELIABILITY THEORY State University of New York	Laurence Bakker	R 36 12/05/93 \$196,224	SJOGREN 93-NM-324	
WAVELET STIELTJES TRANSFORM AND SIGNAL PROCESSING Univ of Toledo	Lin En-Bing	N 24 12/05/93 \$50,471	SJOGREN 93-NM-325	
GENERAL COVERAGE PROBLEMS WITH APPLICATIONS, AND BOOTSTRAP METHOD IN SURVIVAL ANALYSIS AND RELIABILITY THEORY Columbia University	Lo Shaw-Hwa	N 36 12/05/93 \$202,107	SJOGREN 93-NM-326	
NEW APPROACHES TO ARRAY SIGNAL PROCESSING Texas Tech University	Erol Erol	R 24 12/05/93 \$156,416	SJOGREN 93-NM-327	
KNOWLEDGE-BASED DECISION MODEL CONSTRUCTION FOR DYNAMIC INTERPRETATION TASKS Univ of Michigan	Michael Bellman	N 36 12/05/93 \$218,316	WAKSHAM 93-NM-328	
ADAPTIVE METHODS FOR EULER FLOWS IN COMPLEX GEOMETRIES U.S. Courant Institute Math Science	Marsha Berger	N 36 12/05/93 \$425,365	JACOBS 93-NM-329	
CAASERT-93 BAYESIAN NETWORKS FOR SENSOR FUSION George Mason University	Clayton Stewart	N 36 13/05/93 \$113,210	A SJOGREN 93-NM-330	\$113,210 15/08/93 \$113,210
CENTER FOR PARALLEL OPTIMIZATION Univ of Wisconsin	Mangazarian Olvi	N 36 13/05/93 \$940,552	GLASSMAN 93-NM-331	

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NOVAL MULTIPLEXING TECHNIQUES FOR HIGH-SPEED OPTICAL TRANSMISSION SYSTEMS USING OPTICAL AMPLIFIERS City University of New York	anned Samir	N 36 13/05/93 \$479,911	A NACHMAN 93-MM-332	\$155,475 01/09/93 \$479,911
SIGNAL PROCESSING FOR OPTICAL NETWORKS Dartmouth College	Prosser Reese	N 36 17/05/93 \$596,713	A SJOGEREN 93-MM-333	\$192,631 15/09/93 \$597,000
TRANSMITTERS, RECEIVERS, AND NOISE IN SOLUTION COMMUNICATIONS Univ of Maryland, Baltimore County	Menyuk Curtis	N 36 17/05/93 \$652,603	A NACHMAN 93-MM-334	\$218,763 01/09/93 \$652,603
MATHEMATICAL MODELING OF NOVEL OPTICAL FIBER DEVICES Univ of New Mexico	Aceves Alejandro	N 36 20/05/93 \$513,795	A NACHMAN 93-MM-335	\$171,265 01/09/93 \$513,795
EFFICIENT AUTONOMOUS LEARNING FOR ROBUST STATISTICAL PATTERN RECOGNITION Carnegie-Mellon University	Kumar S.V.A.	N 36 21/05/93 \$325,102	SUDDARTH 93-MM-336	
RESONANT ENHANCEMENT IN RADAR TARGET DISCRIMINATION Florida Institute of Technology	Nunn, Jr Walter	N 24 21/05/93 \$265,971	NACHMAN 93-MM-337	
DYNAMIC ADAPTIVE SEARCH: PRACTICAL METHODS FOR LARGE-SCALE GLOBAL OPTIMIZATION Univ of California, San Diego	Hu T.	N 36 21/05/93 \$316,072	GLASSMAN 93-MM-338	
BUILDING INFORMATION SERVERS Univ of Southern California	Seartout William	N 36 21/05/93 \$138,625	A WAKSMAN 93-MM-339	\$138,625 01/09/93 \$138,625
STATISTICAL INFERENCE FOR COHERENT SYSTEMS FROM PARTIAL INFORMATION & MARKOV CHAIN MONTE CARLO METHODS Florida State University	Doss Hani	N 24 27/05/93 \$119,099	SJOGEREN 93-MM-340	

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INTELLIGENT TOOLS FOR THE SIMULATION AND DESIGN OF COMPLEX SYSTEMS Ohio State University	Zhao Feng	N 12 27/05/93 \$0	JACOBS 93-NM-341	
(DEPSCOR92) DIGITAL SIGNAL PROCESSING (DSP) RAPID PROTOTYPING AND IMPLEMENTATION OF ADVANCED RADIO ALGORITHMS FOR MILITARY COMM SYS University of Kansas	Shanmugan Kumarasamy	N 36 27/05/93 \$106,461	SJOGREN 93-NM-342	
(DEPSCOR92) MULTI-SENSOR FUSION ALGORITHMS ON MASSIVELY PARALLEL COMPUTERS Washington University	Miller Michael	N 36 27/05/93 \$317,561	SJOGREN 93-NM-343	
(DEPSCOR92) ADAPTIVE MANAGEMENT FOR SURVIVABILITY IN COMMAND, CONTROL, COMMUNICATION, AND INTELLIGENCE (C3I) SYSTEMS Univ of Wyoming	Santenbein Rex	N 36 27/05/93 \$135,000	JACOBS 93-NM-344	
(DEPSCOR92) VIRTUAL PROTOTYPING AND MANUFACTURING RESEARCH FACILITY Univ of Missouri	Alptekin Sema	N 36 27/05/93 \$124,607	GLASSMAN 93-NM-345	
(DEPSCOR92) ENHANCEMENT TO THE REPRESENTATION LANGUAGE TRANSLATION LAB Univ of Wyoming	Van Jaalen Jeffery	N 36 27/05/93 \$78,119	WAKSMAN 93-NM-346	
(DEPSCOR92) DEPCOR MULTICOMPUTER INSTRUMENTATION Univ of Missouri	McMillin Bruce	N 36 27/05/93 \$990,300	SUDDARTH 93-NM-347	
(DEPSCOR92) MASSIVELY PARALLEL COMPUTING INITIATIVE Univ of Missouri	Holland Grant	N 36 27/05/93 \$152,625	JACOBS 93-NM-348	
(DEPSCOR92) SOUTH CAROLINA INITIATIVE FOR THE COMPUTATIONAL SCIENCES Univ of South Carolina	Jawerth Jorn	N 36 27/05/93 \$556,075	NACHMAN 93-NM-349	

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COEPSCOR92) A COMPUTATION AND GRAPHICS LABORATORY Univ of South Carolina	DeJore Ronald	N 36 27/05/93 \$160,000	SJOEREN 93-NM-350	
COEPSCOR92) DISTRIBUTED OPTIMIZATION IN AIRCRAFT MISSION SCHEDULING North Dakota State University	Nygard Kendall	N 36 27/05/93 \$80,972	A GLASSMAN 93-NM-351	\$80,972 30/09/93 \$80,972
COEPSCOR92) EQUIPMENT FOR COMPUTATION AND VISUALIZATION Washington University	Byrnes Christopher	N 36 27/05/93 \$210,042	JACOBS 93-NM-352	
COEPSCOR92) SOFTWARE VISUALIZATION AND ALGORITHM ANIMATION Univ of Tulsa	Samble Rose	N 36 27/05/93 \$114,865	WAKSMAN 93-NM-353	
COEPSCOR92) ENHANCEMENT OF RESEARCH COMPUTING EQUIPMENT Iulane University	Mislove Michael	N 36 28/05/93 \$121,814	SUDDARTH 93-NM-354	
COEPSCOR92) COMPUTING REQUIREMENTS FOR NEURAL NETWORK TRACKING, POFFING, AND PATHFINDING Clemson University	Jeffries Clark	N 36 28/05/93 \$36,537	SUDDARTH 93-NM-355	
COEPSCOR92) INSTRUMENTATION FOR DAMAGE ASSESSMENT AND CONTROL OF SMART COMPOSITE STRUCTURES Univ of Missouri	Orkafor Anthony	N 36 28/05/93 \$230,895	SUDDARTH 93-NM-356	
VIC CODE PARALLELIZATION Mission Research Corp	Hughes Thomas	N 36 09/06/93 \$512,671	JACOBS 93-NM-357	
HOW HINTS AFFECT LEARNING California Institute of Technology	Abu-Mostafa Yaser	R 12 09/06/93 \$71,370	SUDDARTH 93-NM-358	

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TOPOLOGY & COMPUTATION OF STRUCTURED UNCERTAINTY STABILITY BOUNDARY Univ of Southern California	Jonckheere	N 24 09/06/93 \$175,084	JACOBS 93-NM-359	
GLOBAL OPTIMIZATION USING LINEAR LOWER BOUNDS Univ of California, Davis	Chang	N 24 09/06/93 \$121,389	GLASSMAN 93-NM-360	
FAST ALGORITHMS IN SIGNAL PROCESSING AND CONTROL Stanford University	Kallath	N 36 09/06/93 \$412,074	D SJOGREN 93-NM-361	
DESIGN & ANALYSIS OF LOSSLESS & LOSSY DATA COMPRESSION METHODS WITH APPLICATIONS TO COMMUNICATION AND CACHING Duke University	Vitter	N 36 09/06/93 \$467,432	SUDDARTH 93-NM-362	
COMMUNICATION AND COORDINATION IN DISTRIBUTED PLANNING: AGENT-ORIENTED PROGRAMING AND COMPUTATIONAL SOCIAL LAWS Stanford University	Shoham	N 36 14/06/93 \$1,320,904	A WAKSMAN 93-NM-363	\$250,000 30/09/93 \$1,320,904
LEARNING OBJECT AND SCENCE RECOGNITION STRATEGIES Univ of Massachusetts	Riseman	N 36 16/06/93 \$635,232	A WAKSMAN 93-NM-364	\$75,000 30/09/93 \$635,232
HEAT TIME CONTROL AND EXPERIMENTAL VERIFICATION OF SEMICONDUCTOR PROCESSING Arizona State University	Crouch	N 36 17/06/93 \$81,332	A JACOBS 93-NM-365	\$81,332 01/09/93 \$81,332
SENSORS FOR IN-SITU PROCESS MONITORING AND PROCESS CONTROL Stanford University	SARASWAT	N 36 17/06/93 \$203,376	A JACOBS 93-NM-366	\$203,376 01/09/93 \$203,376
APPLICATIONS OF MODERN SIGNAL PROCESSING TO PHASE MASK DESIGN Stanford University	KAILATH	N 36 17/06/93 \$136,000	A JACOBS 93-NM-367	\$135,992 01/09/93 \$135,992

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MULTI-CHANNEL SWITCHING IN OPTICAL FIBER NETWORKS Washington University	MIN PAUL	N 36 17/06/93 \$488,803	A GLASSMAN 93-NM-368	\$165,862 01/09/93 \$488,803
ONE AND HIGHER DIMENSIONAL WAVELETS FROM FRACTAL INTERPOLATION FUNCTIONS: CONSTRUCTION AND APPLICATION Purdue University	Hardin Douglas	N 36 22/06/93 \$330,165	SJOGREN 93-NM-369	
FINITE MARKOV CHAINS AND RANDOM DISCRETE STRUCTURES Univ of Minnesota	Friedman Avner	N 06 22/06/93 \$60,000	SJOGREN 93-NM-370	
NEURAL NETWORK COMPUTING ARCHITECTURES OF COUPLED ASSOCIATIVE MEMORIES WITH DYNAMIC ATTRACTORS Univ of California, Berkeley	Hirsch Morris	N 36 22/06/93 \$498,196	SUDDARTH 93-NM-371	
PARALLEL I/O AND DATABASES IN INDUSTRY: ISSUES AND OBSTACLES: JAGS'93 SYMPOSIUM Bartmouth College	Makdon Fillia	N 16 22/06/93 \$64,827	WAKSMAN 93-NM-372	
GLOBAL OPTIMIZATION USING LINEAR LOWER BOUNDS Univ of California, Davis	Chang Tsu-Shuan	N 24 22/06/93 \$121,989	GLASSMAN 93-NM-373	
CONFERENCE ON EMERGING ISSUES IN MATHEMATICS & COMPUTATION FROM THE MATERIALS SCIENCES Carnegie-Mellon University	Kinderlehrer David	N 12 22/06/93 \$10,000	NACHMAN 93-NM-374	
R.C. BOSE MEMORIAL CONFERENCE ON COMBINATORICS AND ITS APPLICATIONS Colorado State University	Privastava Jagdish	N 24 23/06/93 \$6,640	SJOGREN 93-NM-375	
METHODS FOR EVALUATING THE GENERALIZATION ABILITY OF EXISTING MACHINE LEARNING ALGORITHMS College of William and Mary	Collins M. Robert	N 12 23/06/93 \$18,445	SUDDARTH 93-NM-376	

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MULTI-STRATEGY LEARNING FOR IMAGE UNDERSTANDING		N 48	A	\$50,000
Univ of California, Riverside	Jhenu	24/06/93	WAKSMAN	30/09/93
		\$773,909	93-WN-377	\$773,909
IMAGE UNDERSTANDING RESEARCH IN COMPLEX ENVIRONMENTS		N 36	A	\$319,595
Univ of Southern California	Nevatia	23/06/93	WAKSMAN	01/09/93
	Ramakant	\$1,838,622	93-WN-378	\$1,838,622